FIG. 1

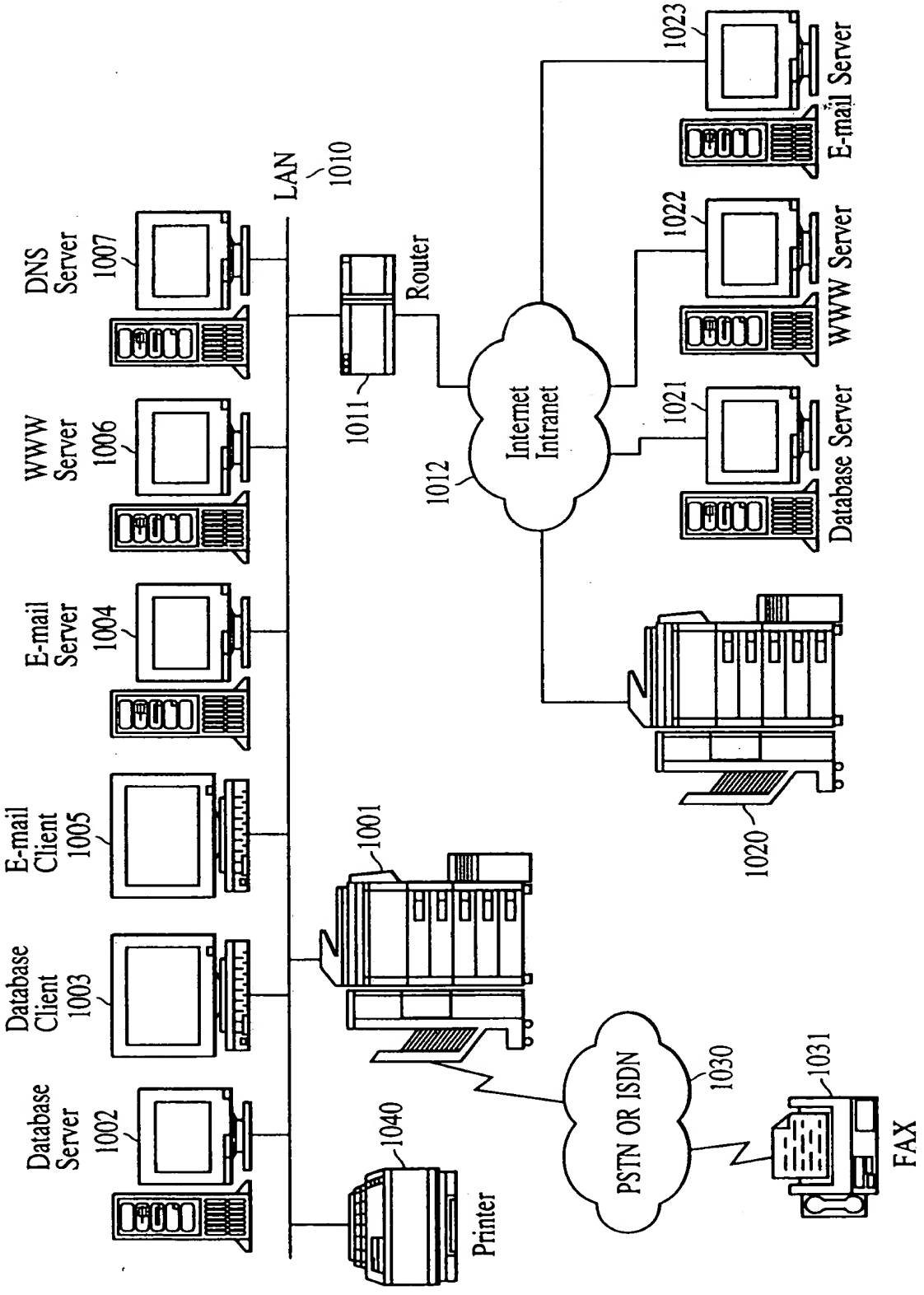

LAN
1010
Router
1011
Internet
Intranet
1012
DNS Server
1007
WWW Server
1006
E-mail Server
1004
E-mail Client
1005
Database Client
1003
Database Server
1002
Printer
1040
1001
PSTN OR ISDN
1030
FAX
1031
1020
Database Server
1021
WWW Server
1022
E-mail Server
1023

FIG. 2

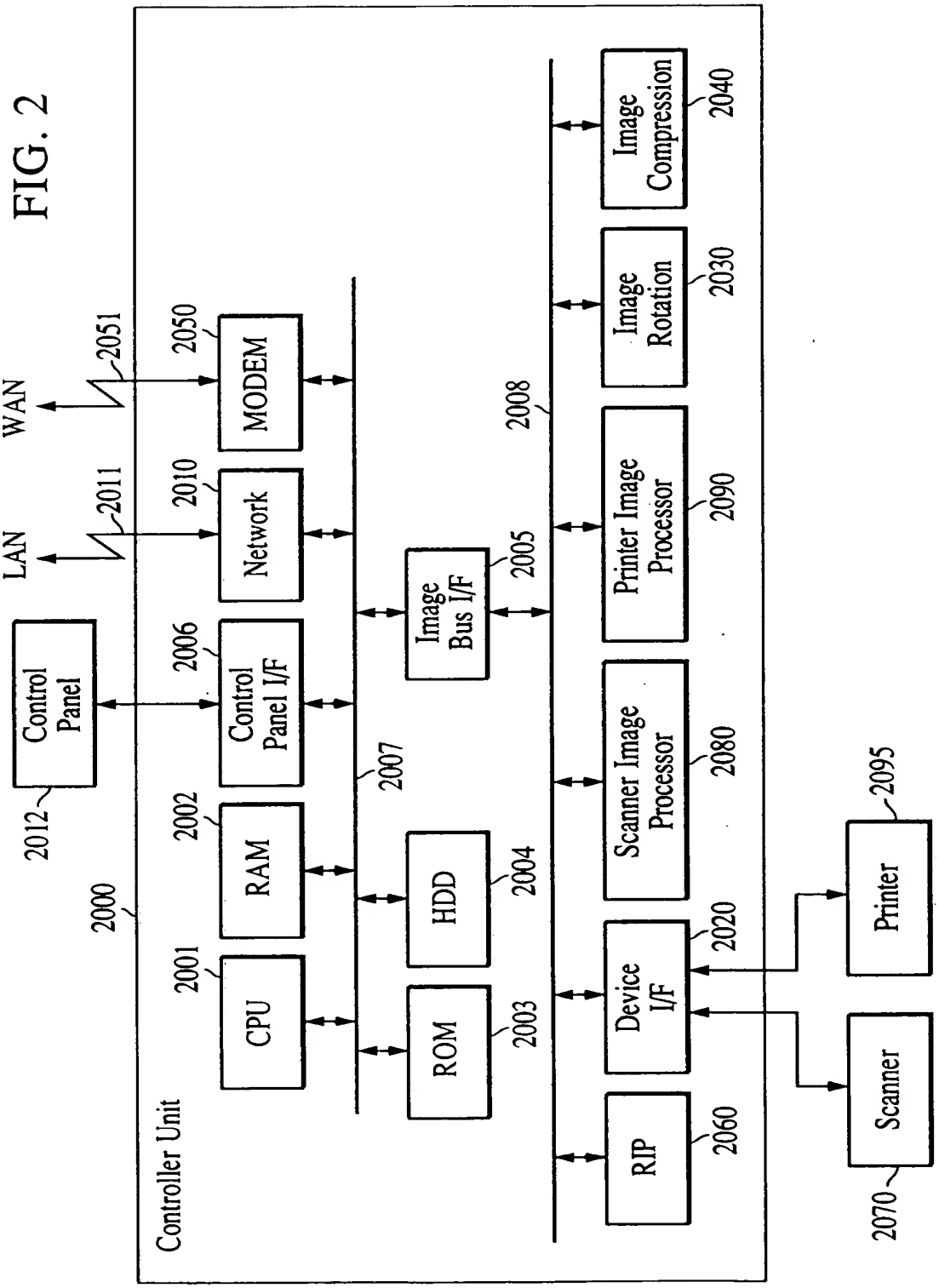

Controller Unit
2000
CPU
2001
RAM
2002
ROM
2003
HDD
2004
Image Bus I/F
2005
Control Panel I/F
2006
2007
2008
Control Panel
2012
LAN
2011
WAN
2051
Network
2010
MODEM
2050
RIP
2060
Device I/F
2020
Scanner Image Processor
2080
Printer Image Processor
2090
Image Rotation
2030
Image Compression
2040
Printer
2095
Scanner
2070

FIG. 3

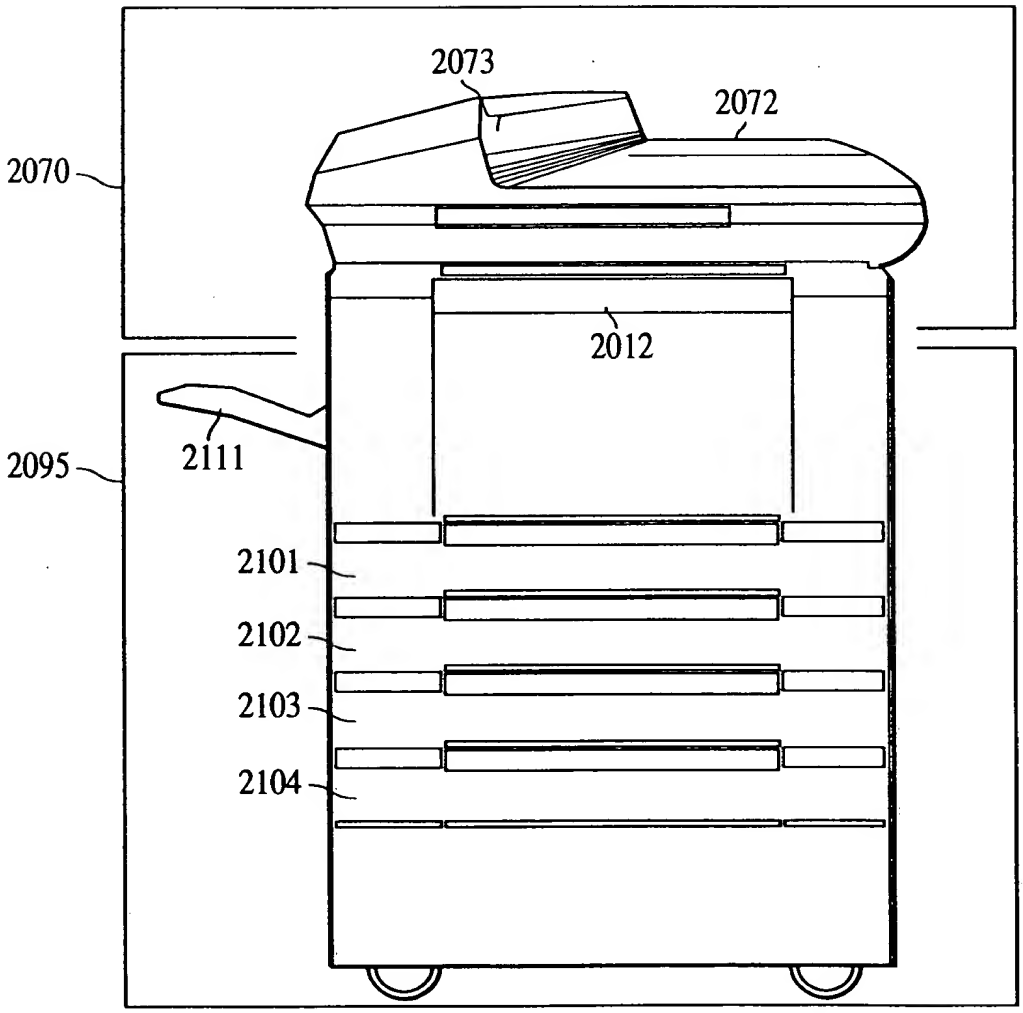


FIG. 4

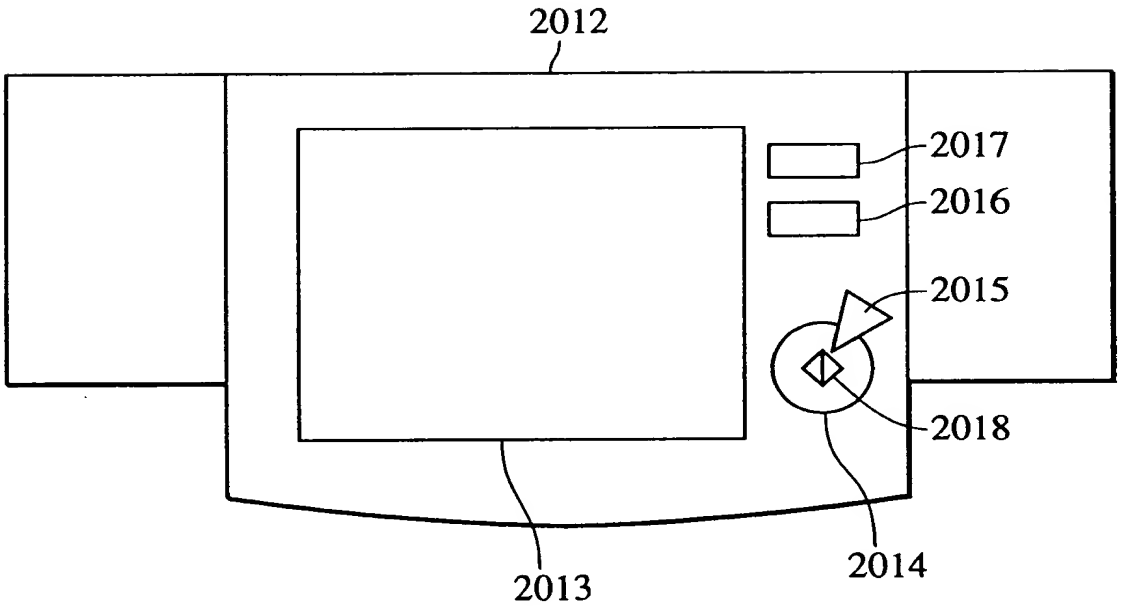


FIG. 5

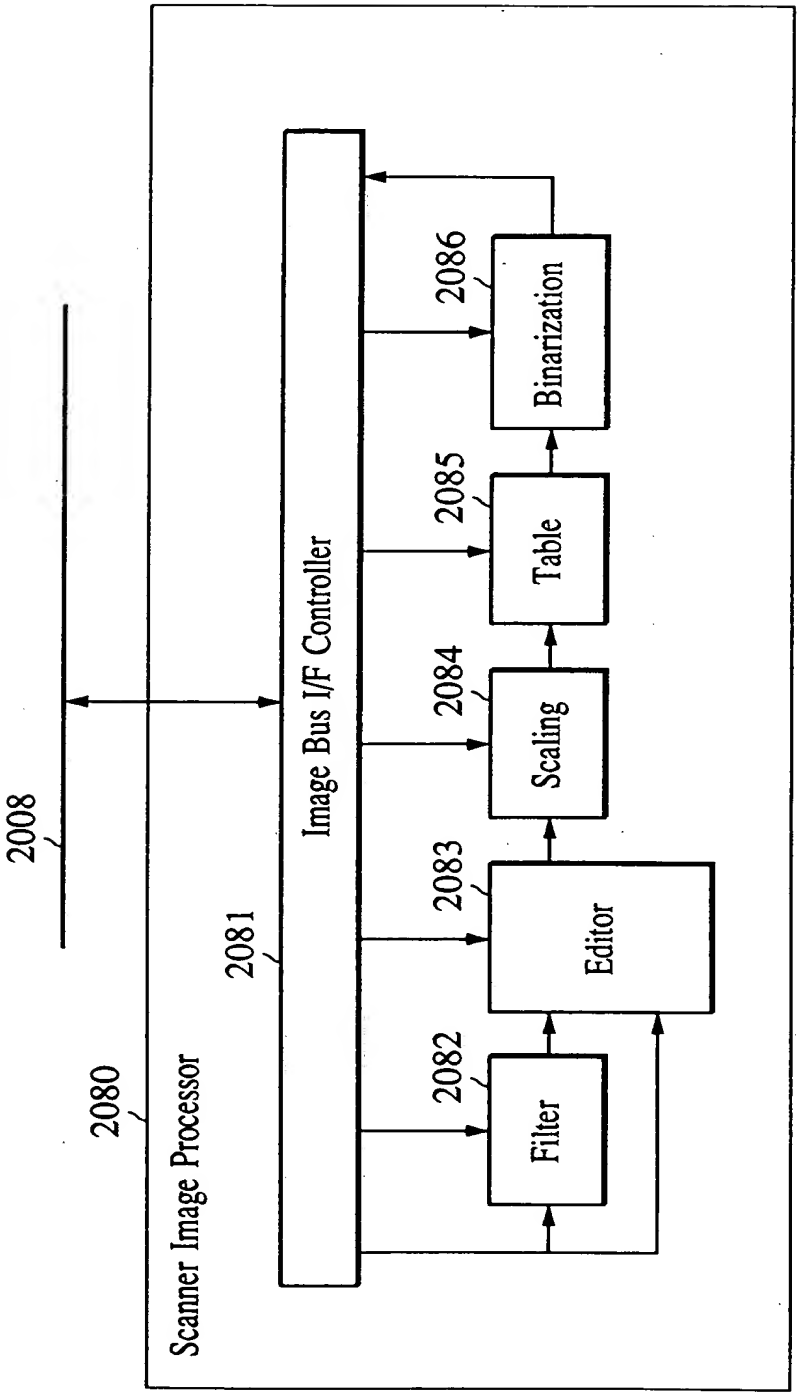

2008
2080
Scanner Image Processor
2081
Image Bus I/F Controller
2082
Filter
2083
Editor
2084
Scaling
2085
Table
2086
Binarization

FIG. 6

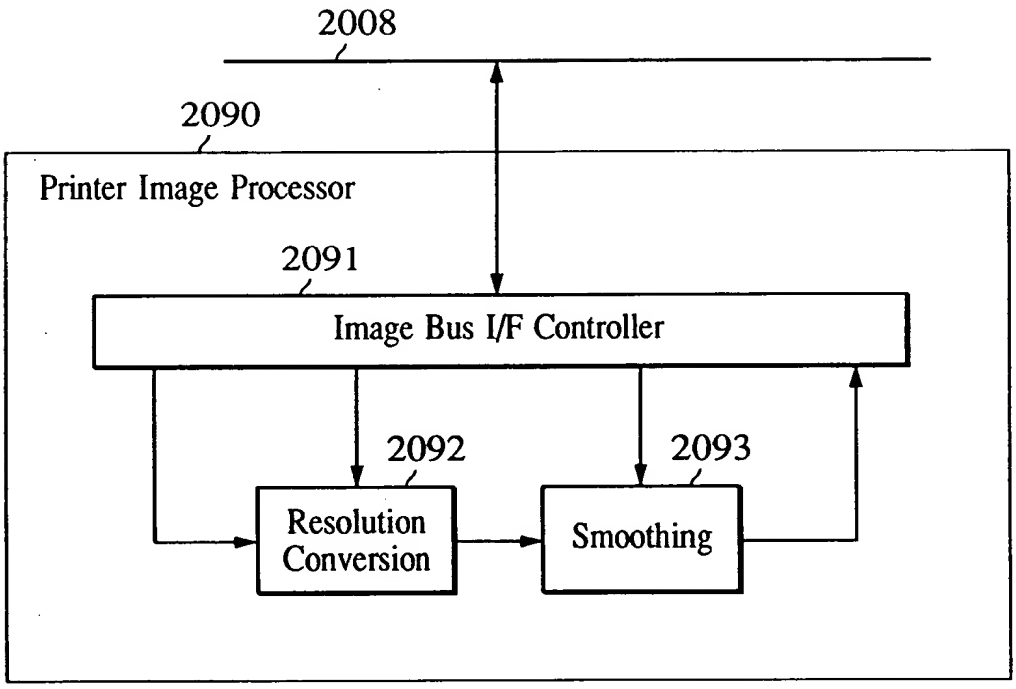

2008
2090
Printer Image Processor
2091
Image Bus I/F Controller
2092
2093
Resolution Conversion
Smoothing

FIG. 7

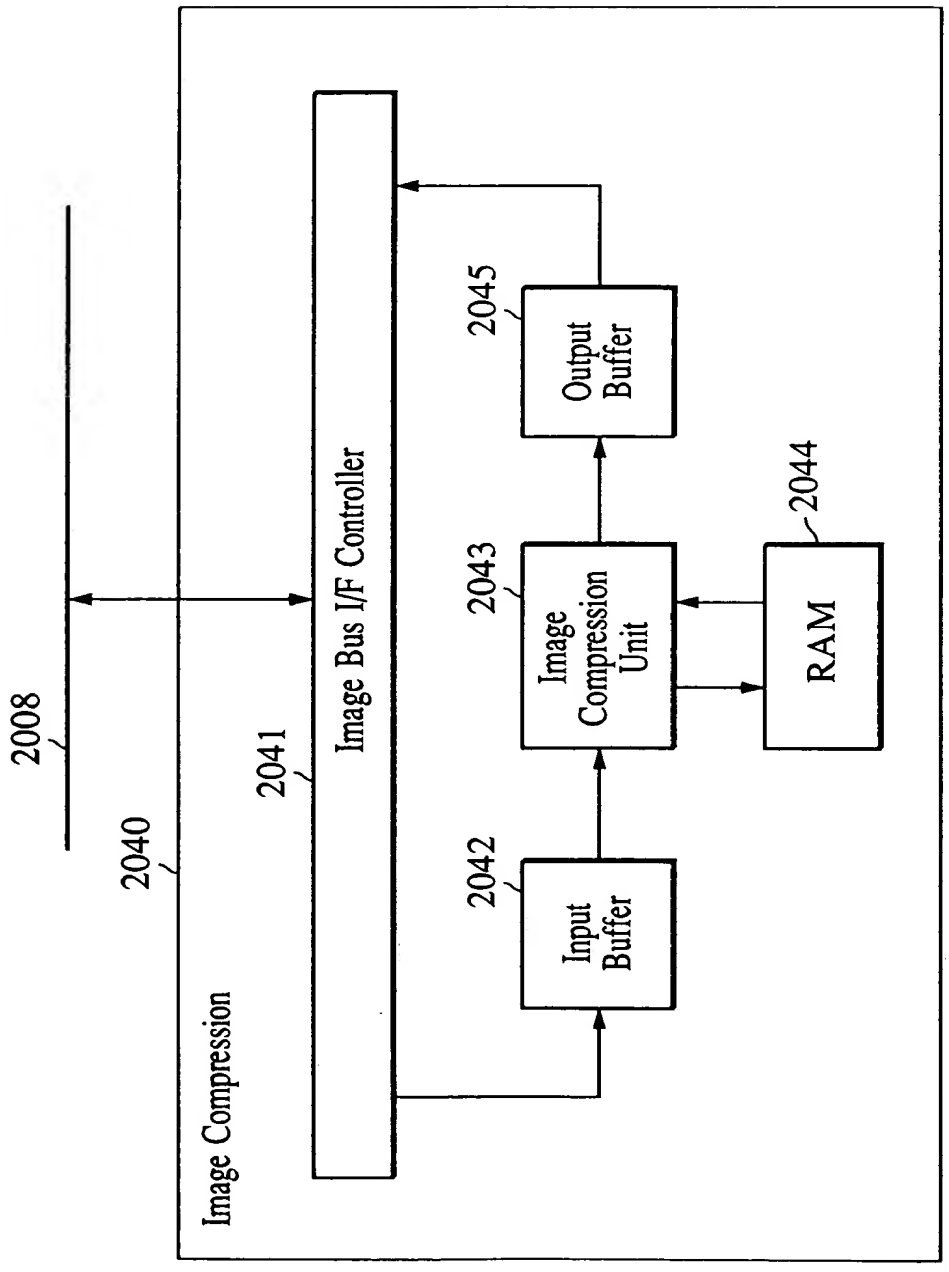

2008
2040
Image Compression
2041
Image Bus I/F Controller
2042
Input Buffer
2043
Image Compression Unit
2044
RAM
2045
Output Buffer

FIG. 8

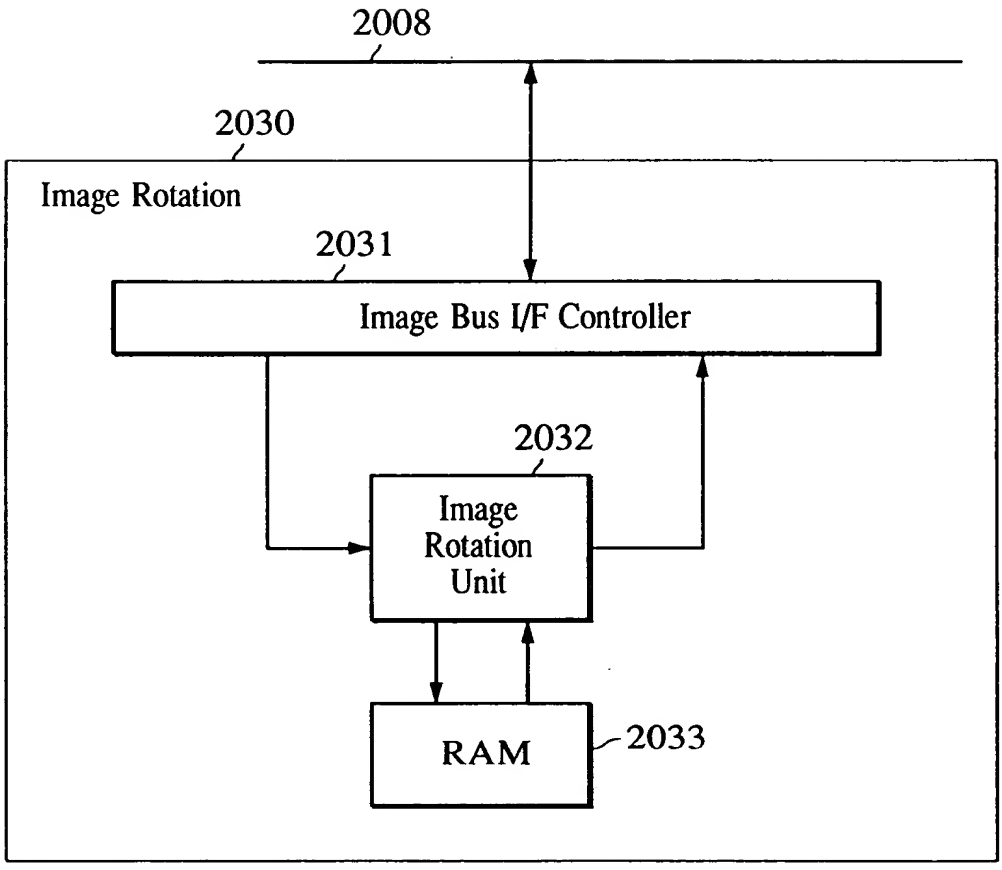

2008
2030
Image Rotation
2031
Image Bus I/F Controller
2032
Image Rotation Unit
RAM
2033

FIG. 9

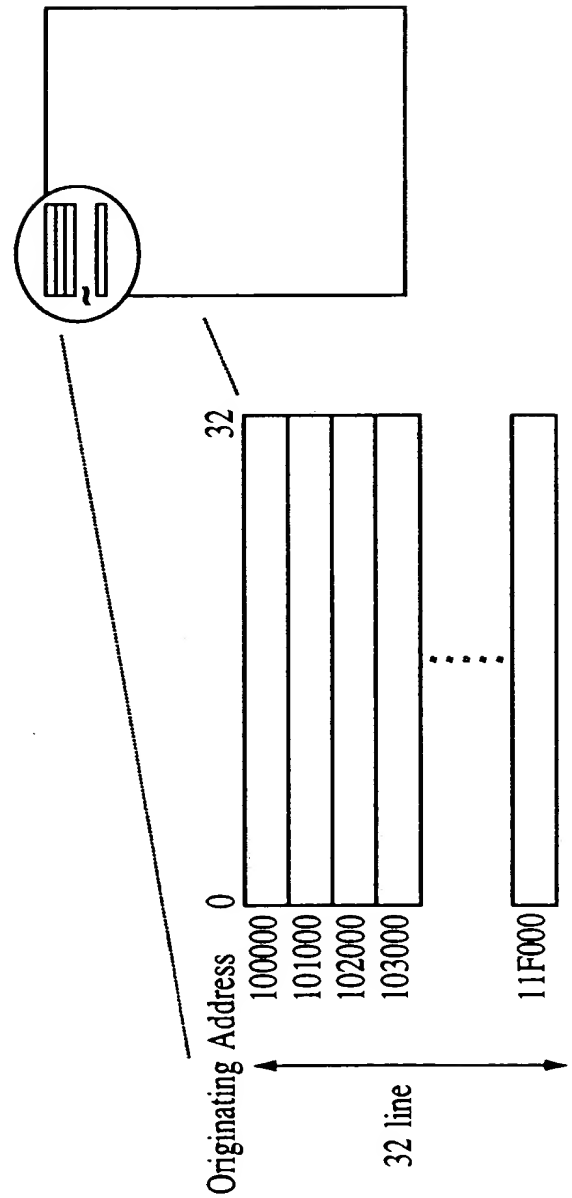

32
0
Originating Address
100000
101000
102000
103000
11F000
32 line

FIG. 10

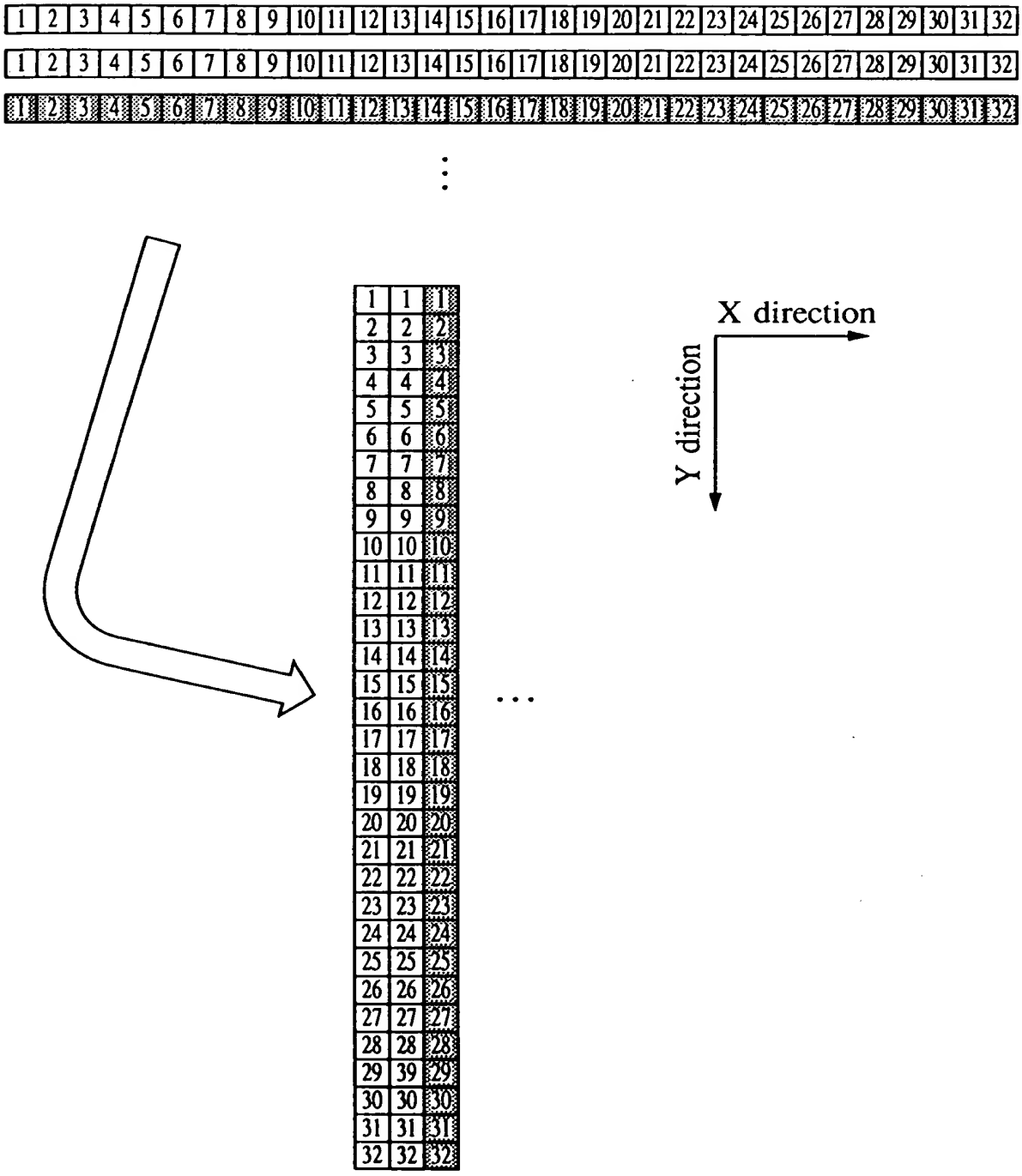

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
1 1 1
2 2 2
3 3 3
4 4 4
5 5 5
6 6 6
7 7 7
8 8 8
9 9 9
10 10 10
11 11 11
12 12 12
13 13 13
14 14 14
15 15 15
16 16 16
17 17 17
18 18 18
19 19 19
20 20 20
21 21 21
22 22 22
23 23 23
24 24 24
25 25 25
26 26 26
27 27 27
28 28 28
29 39 29
30 30 30
31 31 31
32 32 32
X direction
Y direction

FIG. 11

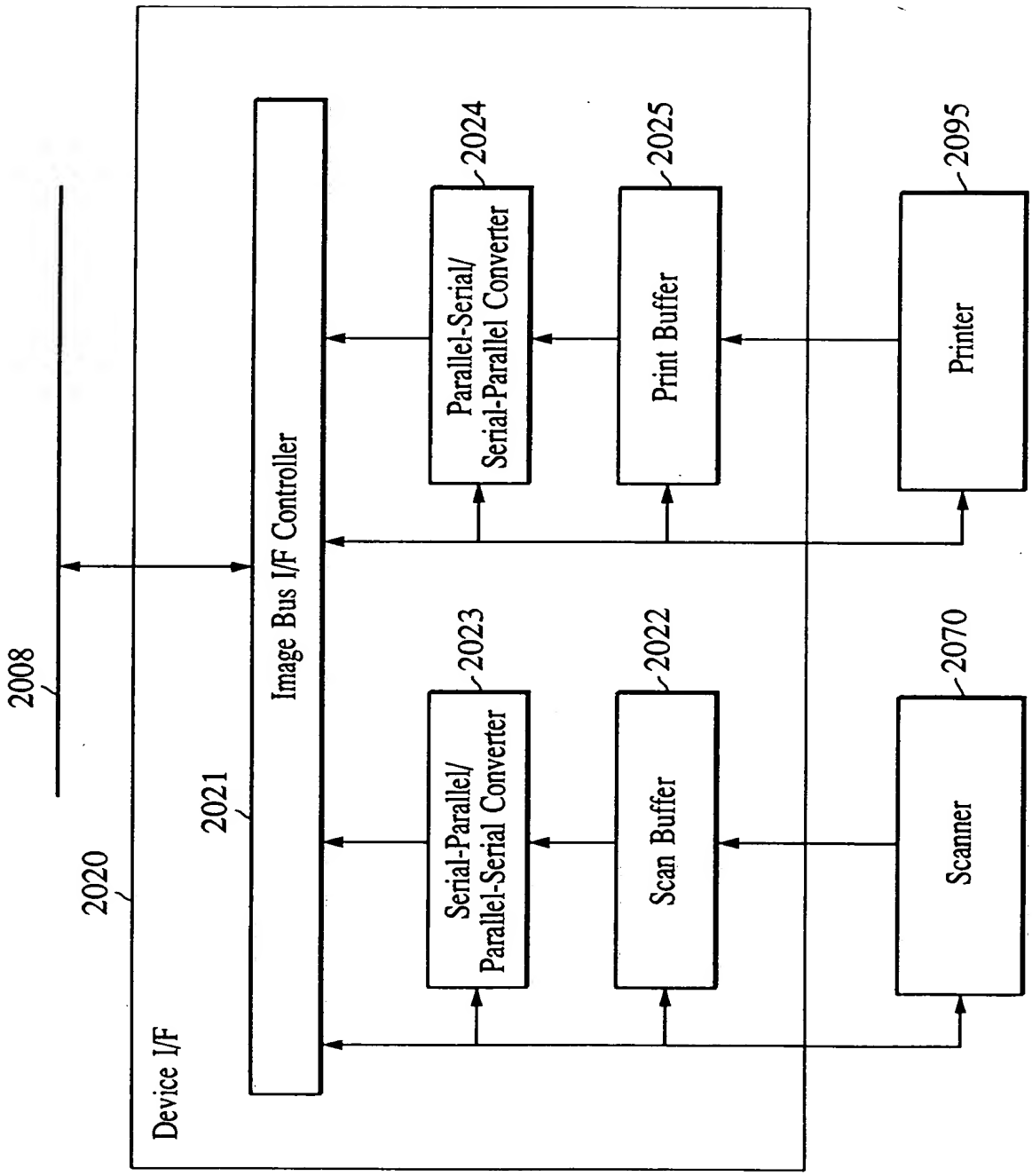

2008
2020
Device I/F
2021
Image Bus I/F Controller
2024
Parallel-Serial/
Serial-Parallel Converter
2025
Print Buffer
2095
Printer
2023
Serial-Parallel/
Parallel-Serial Converter
2022
Scan Buffer
2070
Scanner

FIG. 12

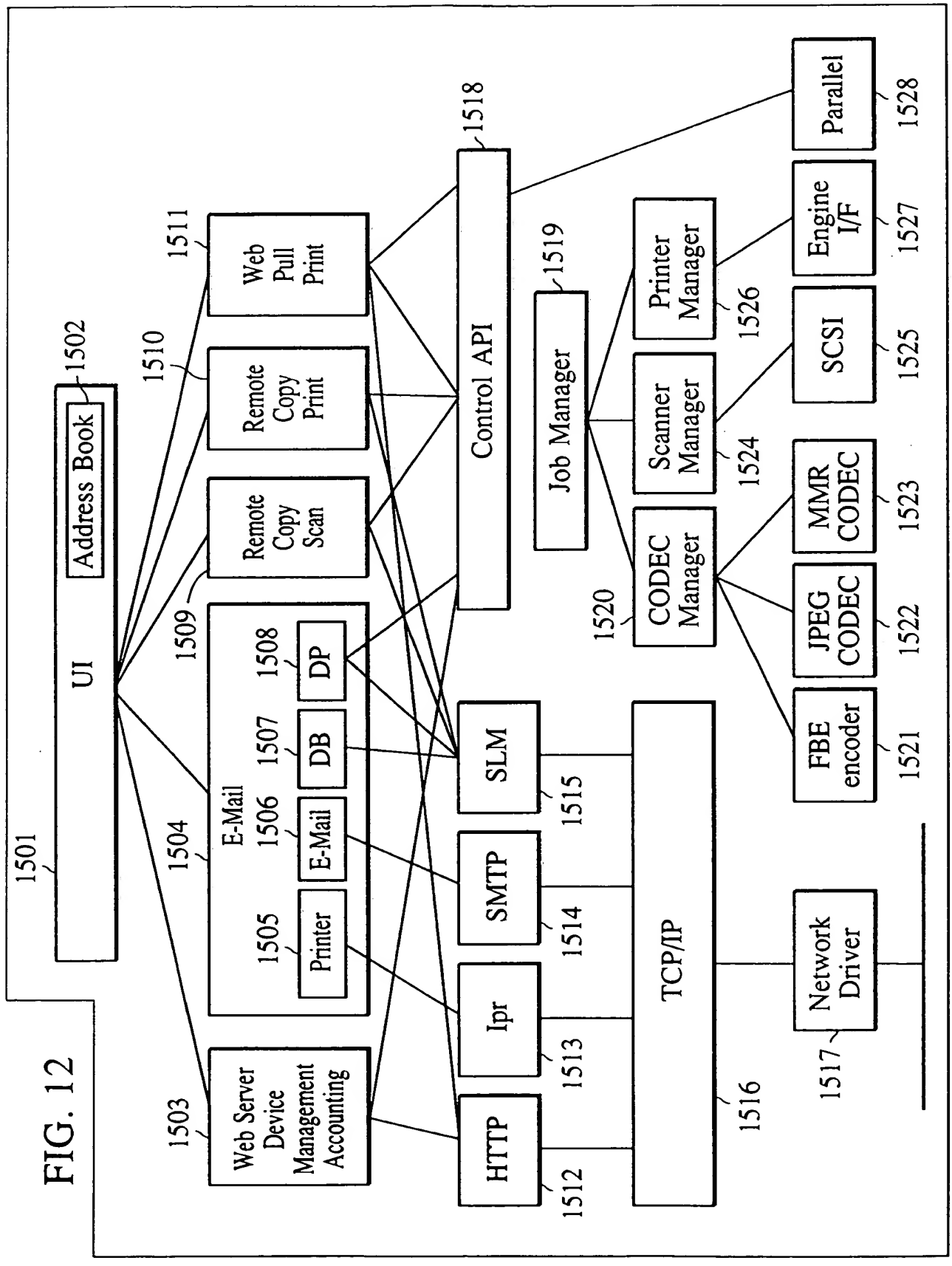

1501
UI
1502
Address Book
1503
Web Server
Device Management
Accounting
1504
E-Mail
1505
Printer
1506
E-Mail
1507
DB
1508
DP
1509
Remote Copy Scan
1510
Remote Copy Print
1511
Web Pull Print
1512
HTTP
1513
Ipr
1514
SMTP
1515
SLM
1516
TCP/IP
1517
Network Driver
1518
Control API
1519
Job Manager
1520
CODEC Manager
1521
FBE encoder
1522
JPEG CODEC
1523
MMR CODEC
1524
Scanner Manager
1525
SCSI
1526
Printer Manager
1527
Engine I/F
1528
Parallel

FIG. 13

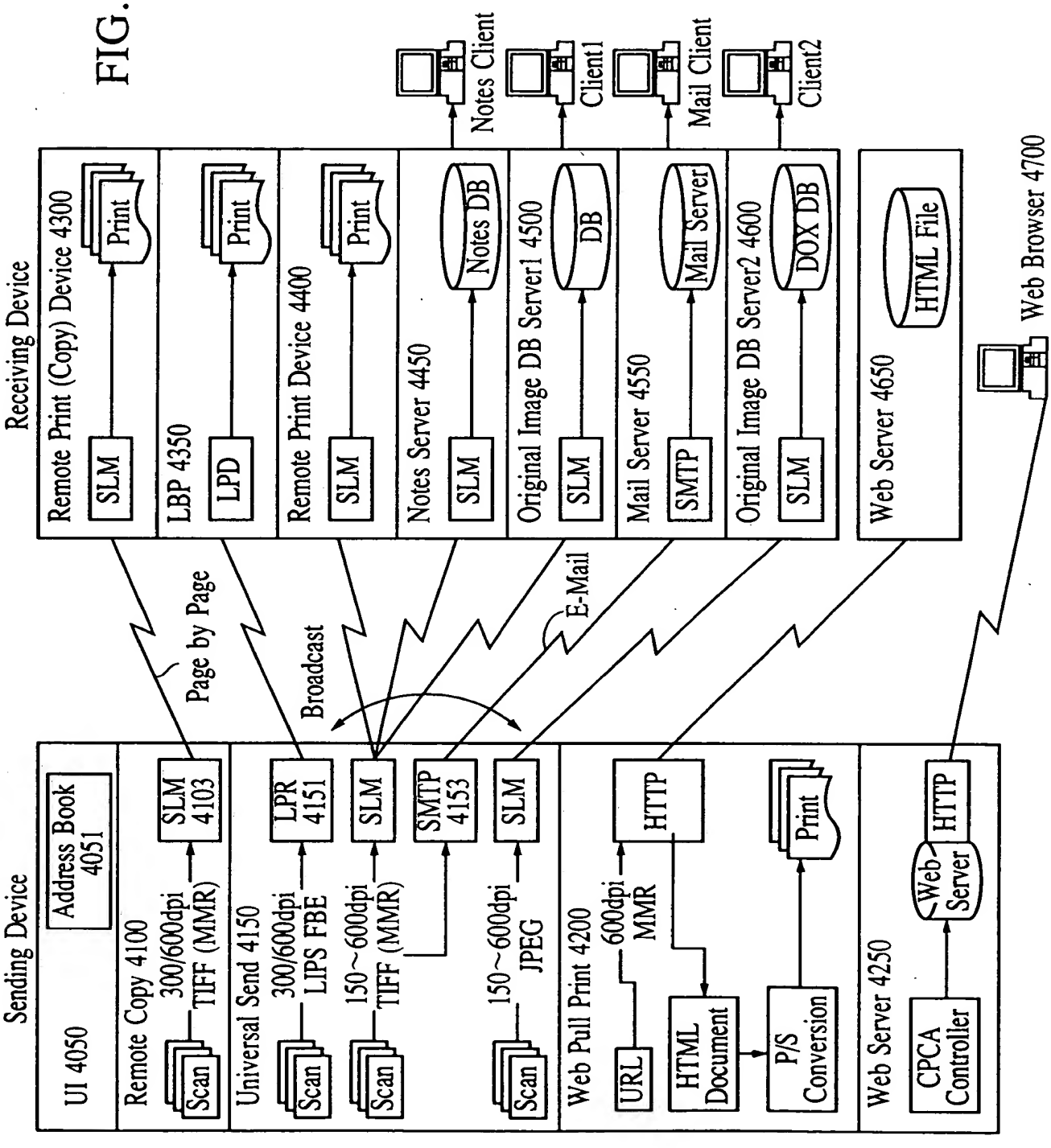

Sending Device
UI 4050
Address Book 4051
Remote Copy 4100
Scan
300/600dpi TIFF (MMR)
SLM 4103
Universal Send 4150
Scan
300/600dpi LIPS FBE
LPR 4151
Scan
150~600dpi TIFF (MMR)
SLM
SMTP 4153
Scan
150~600dpi JPEG
SLM
Web Pull Print 4200
URL
600dpi MMR
HTTP
HTML Document
P/S Conversion
Print
Web Server 4250
CPCA Controller
Web Server
HTTP
Page by Page
Broadcast
E-Mail
Receiving Device
Remote Print (Copy) Device 4300
SLM
Print
LBP 4350
LPD
Print
Remote Print Device 4400
SLM
Print
Notes Server 4450
SLM
Notes DB
Notes Client
Original Image DB Server1 4500
SLM
DB
Client1
Mail Server 4550
SMTP
Mail Server
Mail Client
Original Image DB Server2 4600
SLM
DOX DB
Client2
Web Server 4650
HTML File
Web Browser 4700

FIG. 14

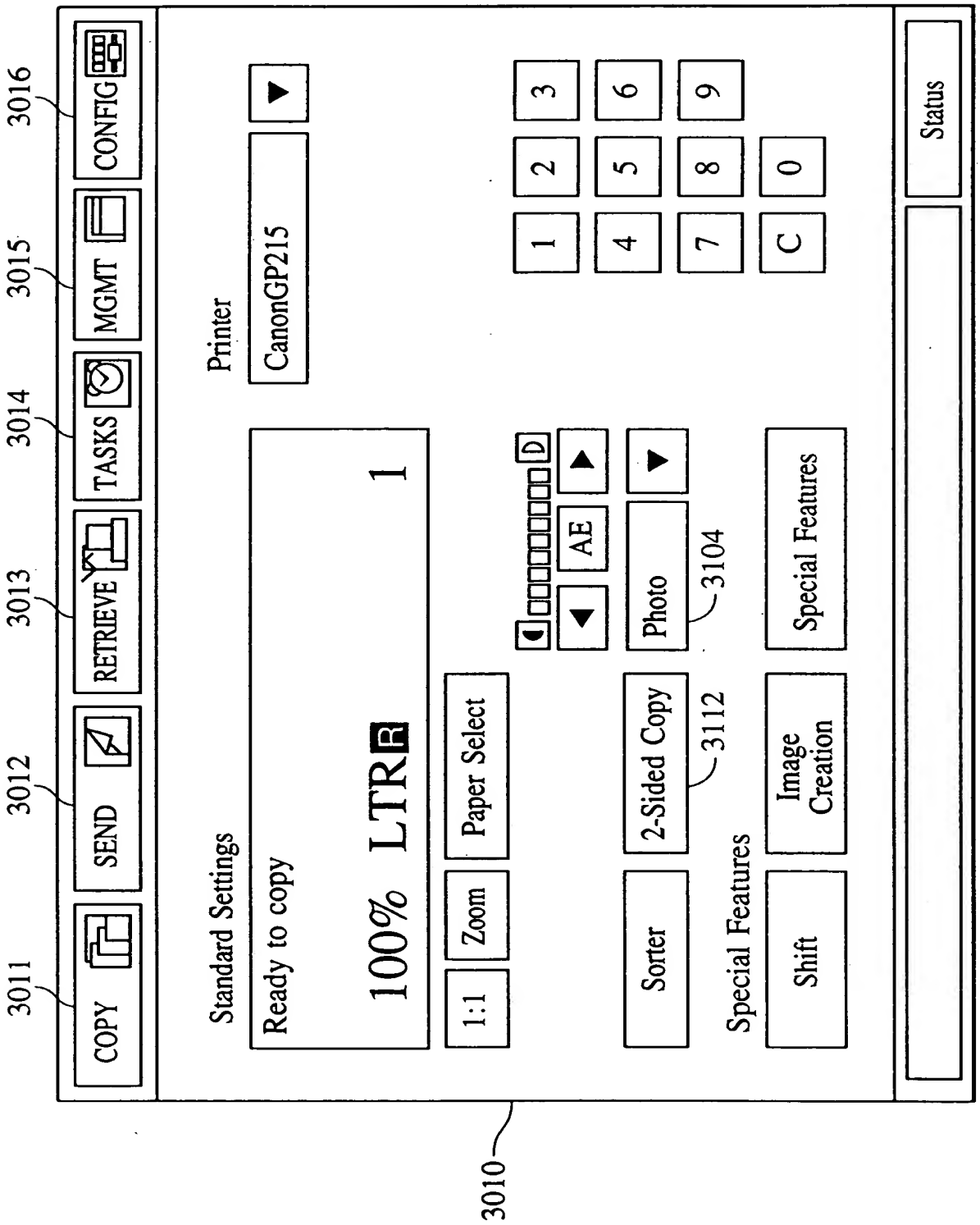

3010
3011
COPY
3012
SEND
3013
RETRIEVE
3014
TASKS
3015
MGMT
3016
CONFIG
Standard Settings
Ready to copy
100% LTR
1
1:1
Zoom
Paper Select
Sorter
2-Sided Copy
3112
Shift
Image Creation
Special Features
Printer
CanonGP215
AE
Photo
3104
Special Features
1
2
3
4
5
6
7
8
9
C
0
Status

FIG. 15

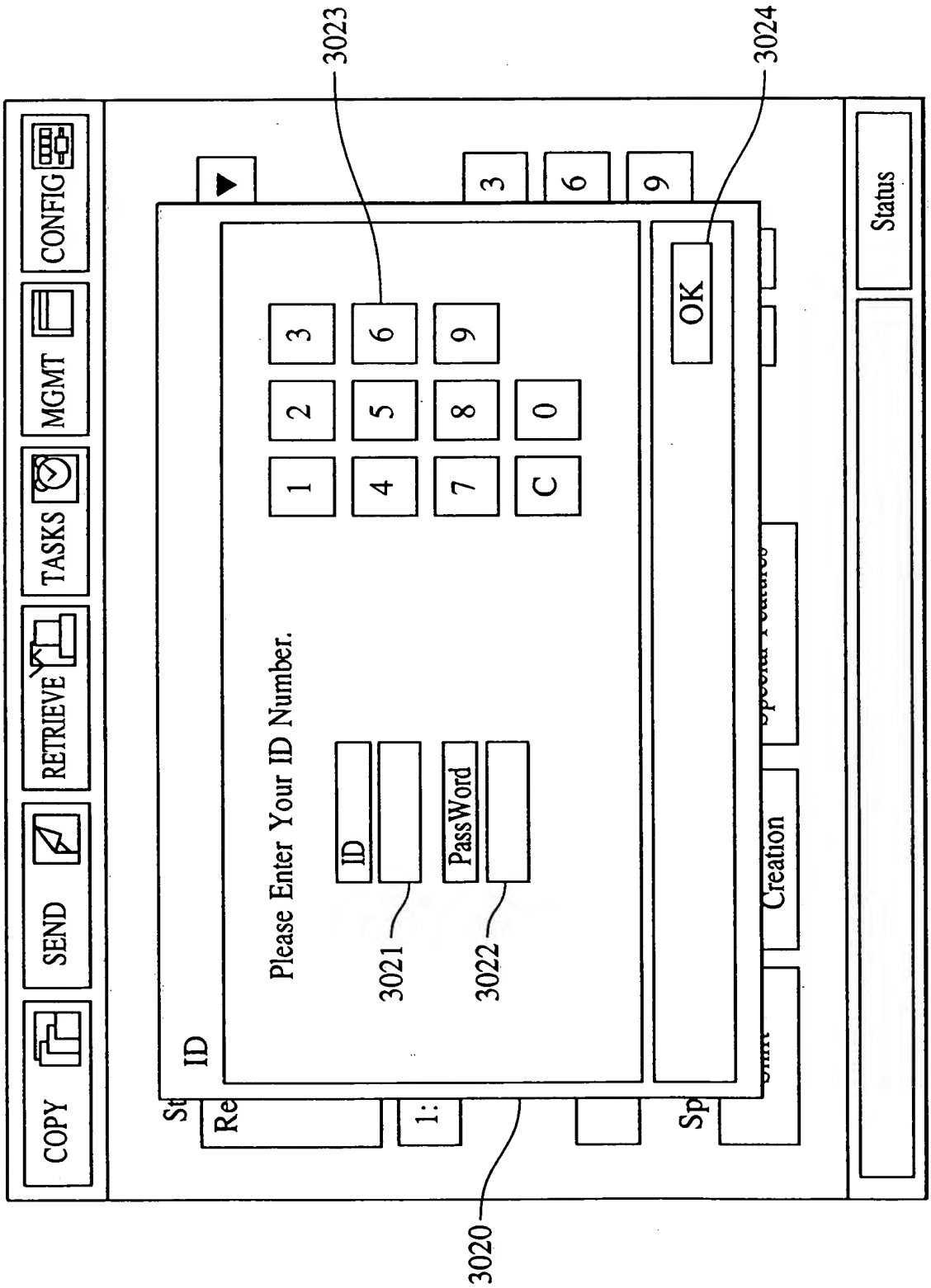

COPY
SEND
RETRIEVE
TASKS
MGMT
CONFIG
Please Enter Your ID Number.
ID
PassWord
1
2
3
4
5
6
7
8
9
C
0
OK
Creation
Status
3020
3021
3022
3023
3024

FIG. 16

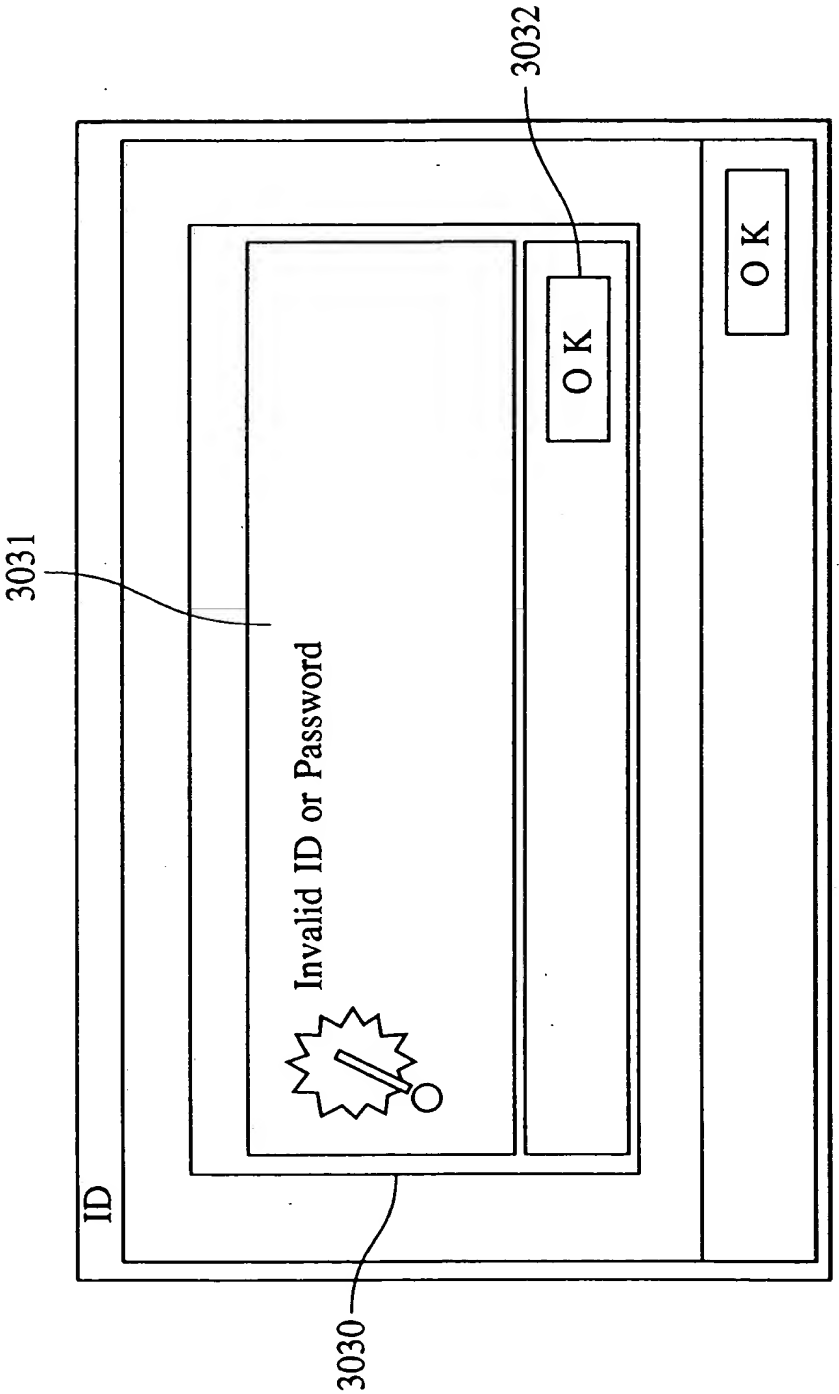


FIG. 17

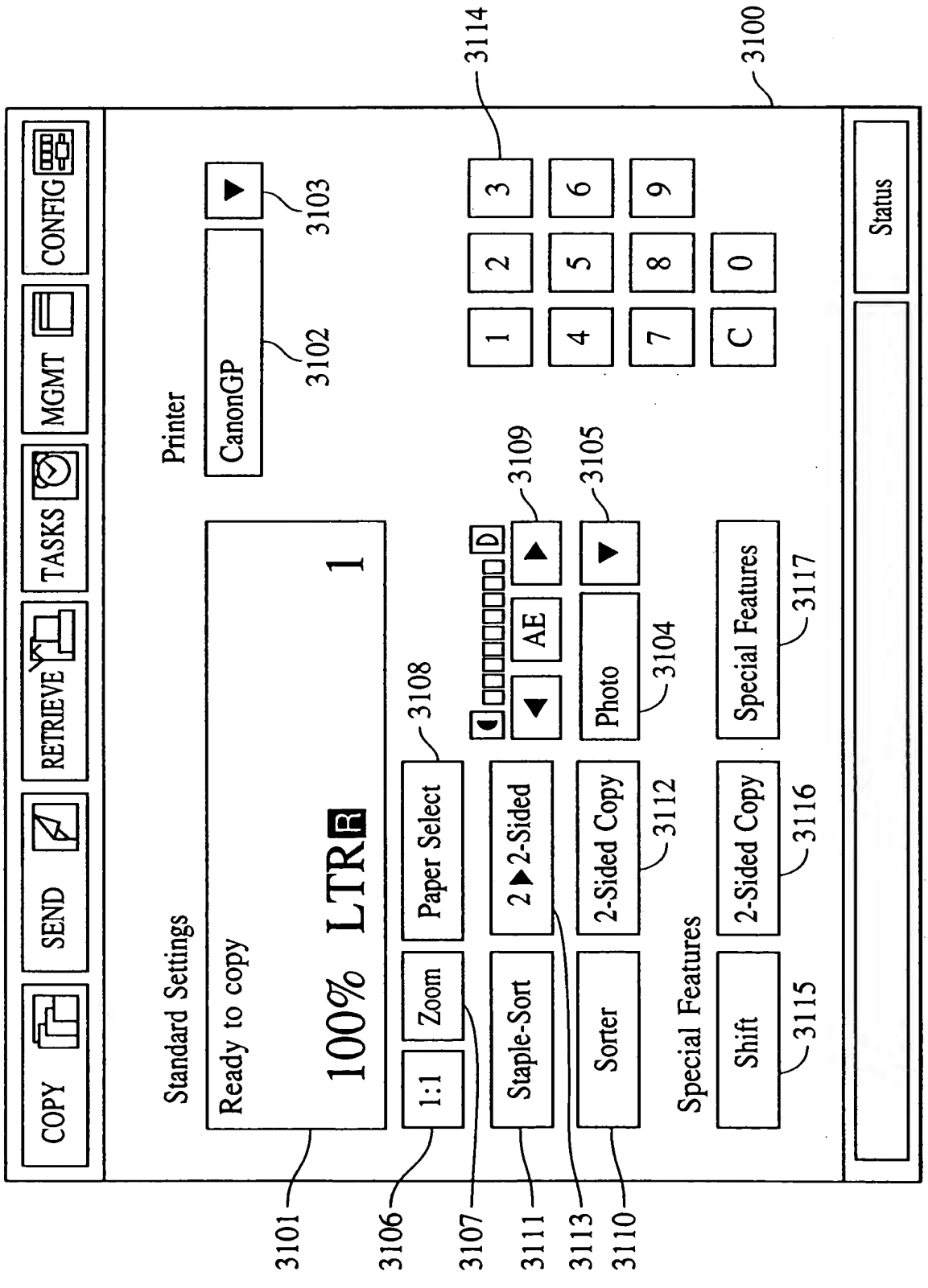

COPY
SEND
RETRIEVE
TASKS
MGMT
CONFIG
Standard Settings
Ready to copy
100% LTR R
1
Printer
CanonGP
1
2
3
4
5
6
7
8
9
C
0
Status
1:1
Zoom
Paper Select
Staple-Sort
2▶2-Sided
Sorter
2-Sided Copy
Photo
Special Features
Shift
2-Sided Copy
Special Features
AE
D
3101
3102
3103
3104
3105
3106
3107
3108
3109
3110
3111
3112
3113
3114
3115
3116
3117
3100

FIG. 18

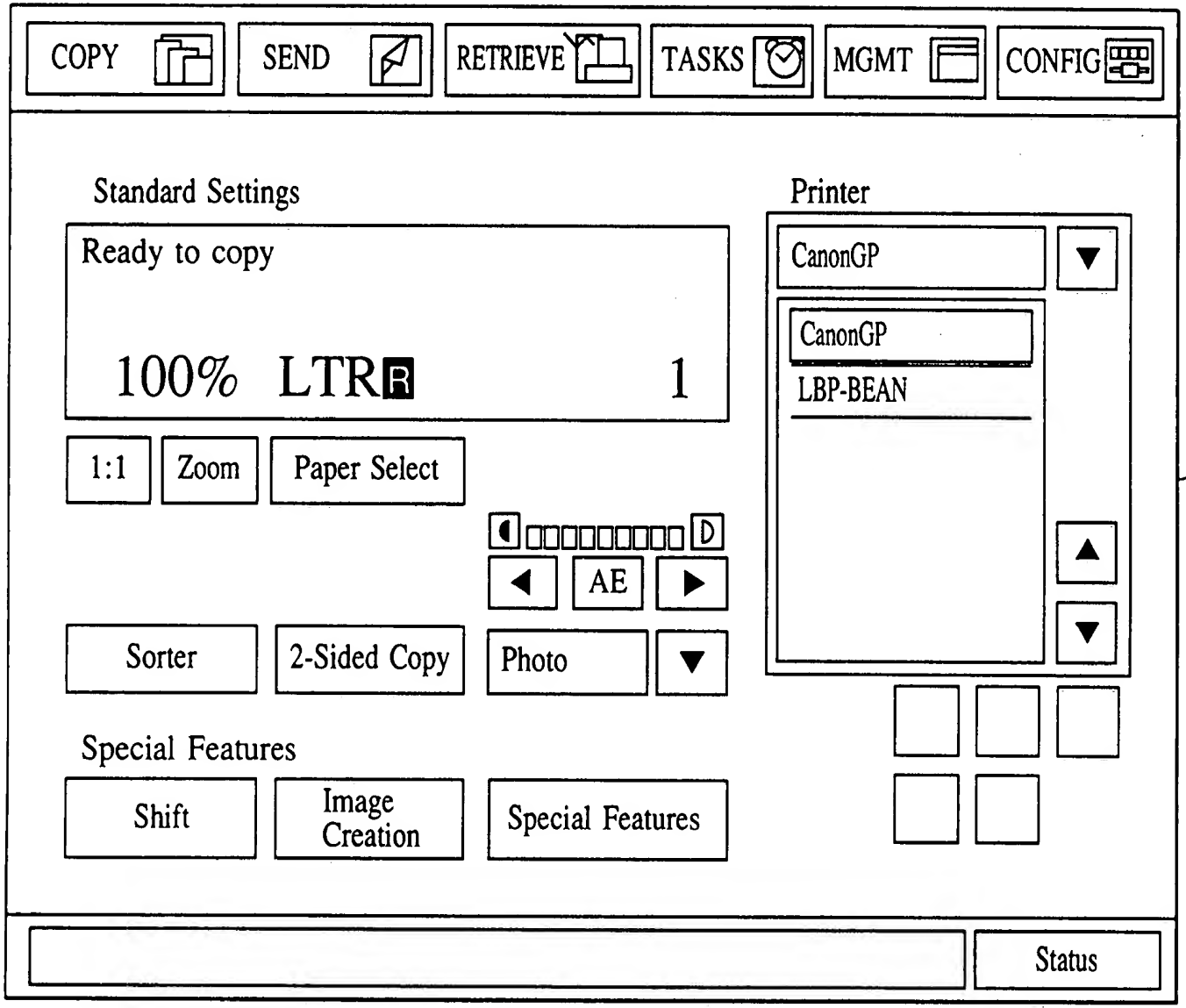

COPY
SEND
RETRIEVE
TASKS
MGMT
CONFIG
Standard Settings
Ready to copy
100% LTR R 1
1:1
Zoom
Paper Select
D
AE
Sorter
2-Sided Copy
Photo
Special Features
Shift
Image Creation
Special Features
Printer
CanonGP
CanonGP
LBP-BEAN
3120
Status

FIG. 19

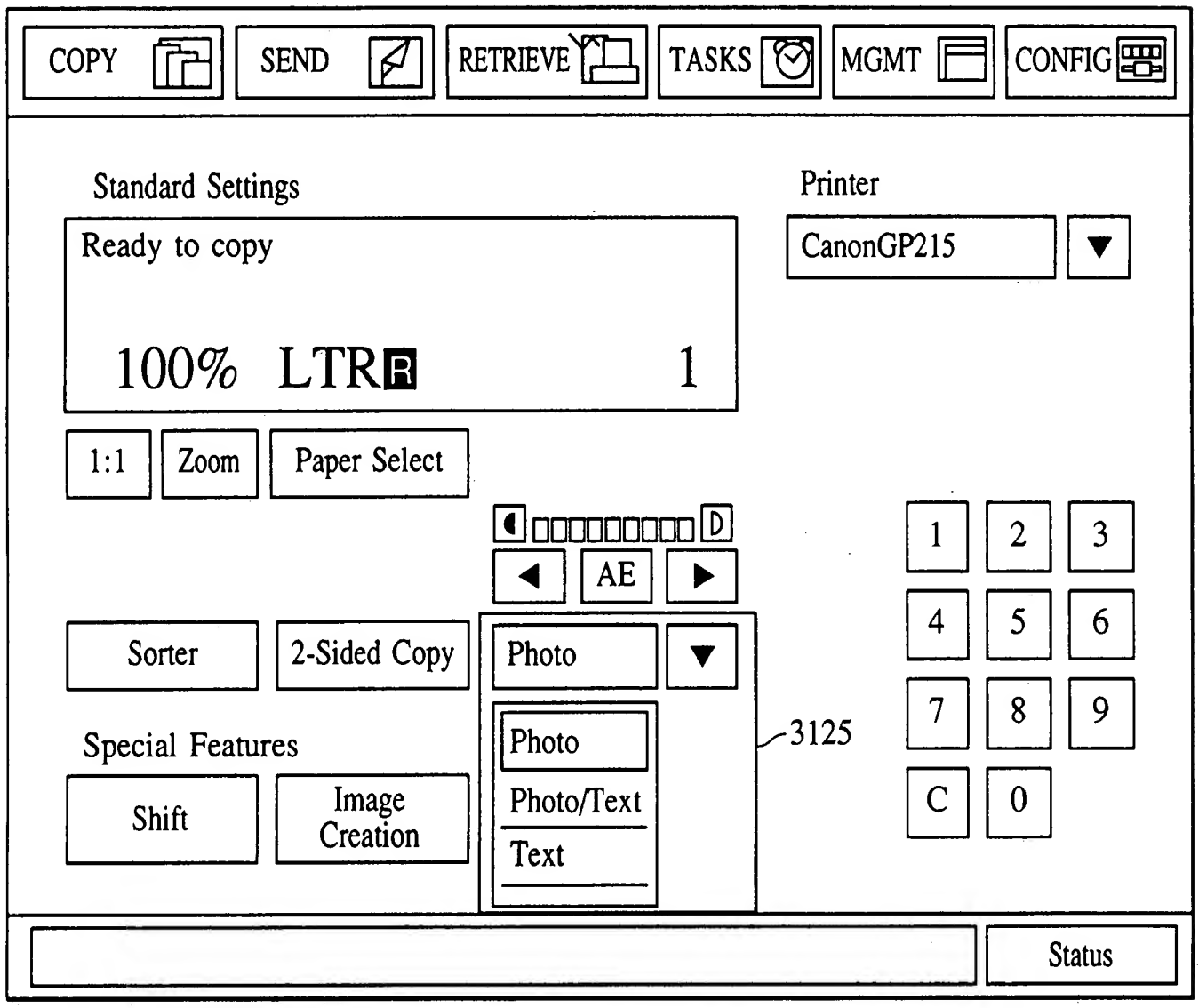

COPY
SEND
RETRIEVE
TASKS
MGMT
CONFIG
Standard Settings
Printer
Ready to copy
100% LTR R 1
CanonGP215
1:1
Zoom
Paper Select
AE
D
Sorter
2-Sided Copy
Photo
Special Features
Photo
Photo/Text
Text
3125
Shift
Image Creation
1
2
3
4
5
6
7
8
9
C
0
Status

FIG. 20

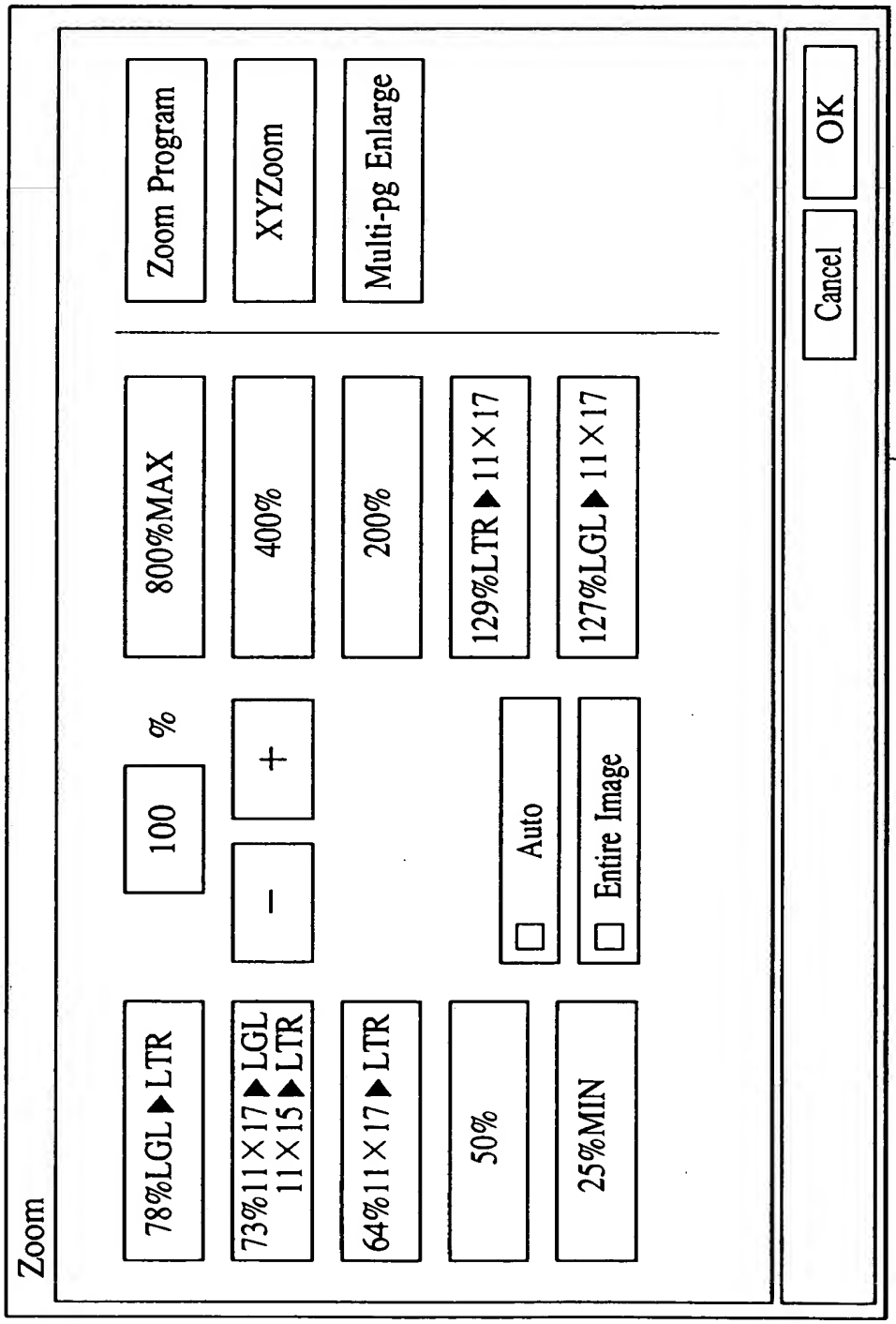

Zoom
78%LGL▶LTR
73%11×17▶LGL
11×15▶LTR
64%11×17▶LTR
50%
25%MIN
100
%
−
+
Auto
Entire Image
800%MAX
400%
200%
129%LTR▶11×17
127%LGL▶11×17
Zoom Program
XYZoom
Multi-pg Enlarge
Cancel
OK
3130

FIG. 21

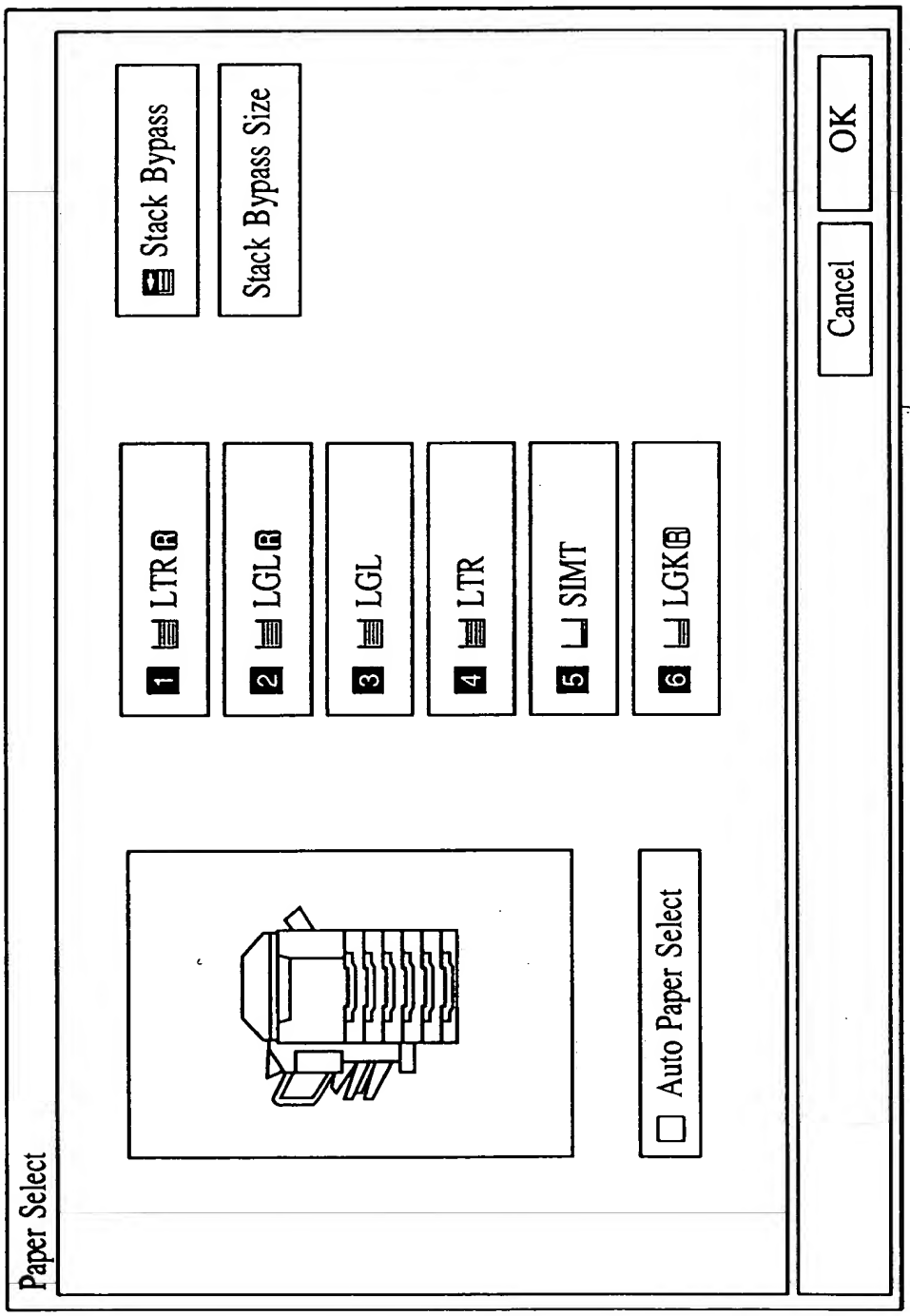

Paper Select
Stack Bypass
Stack Bypass Size
1 LTR R
2 LGL R
3 LGL
4 LTR
5 SIMT
6 LGK R
Auto Paper Select
Cancel
OK
3140

FIG. 22

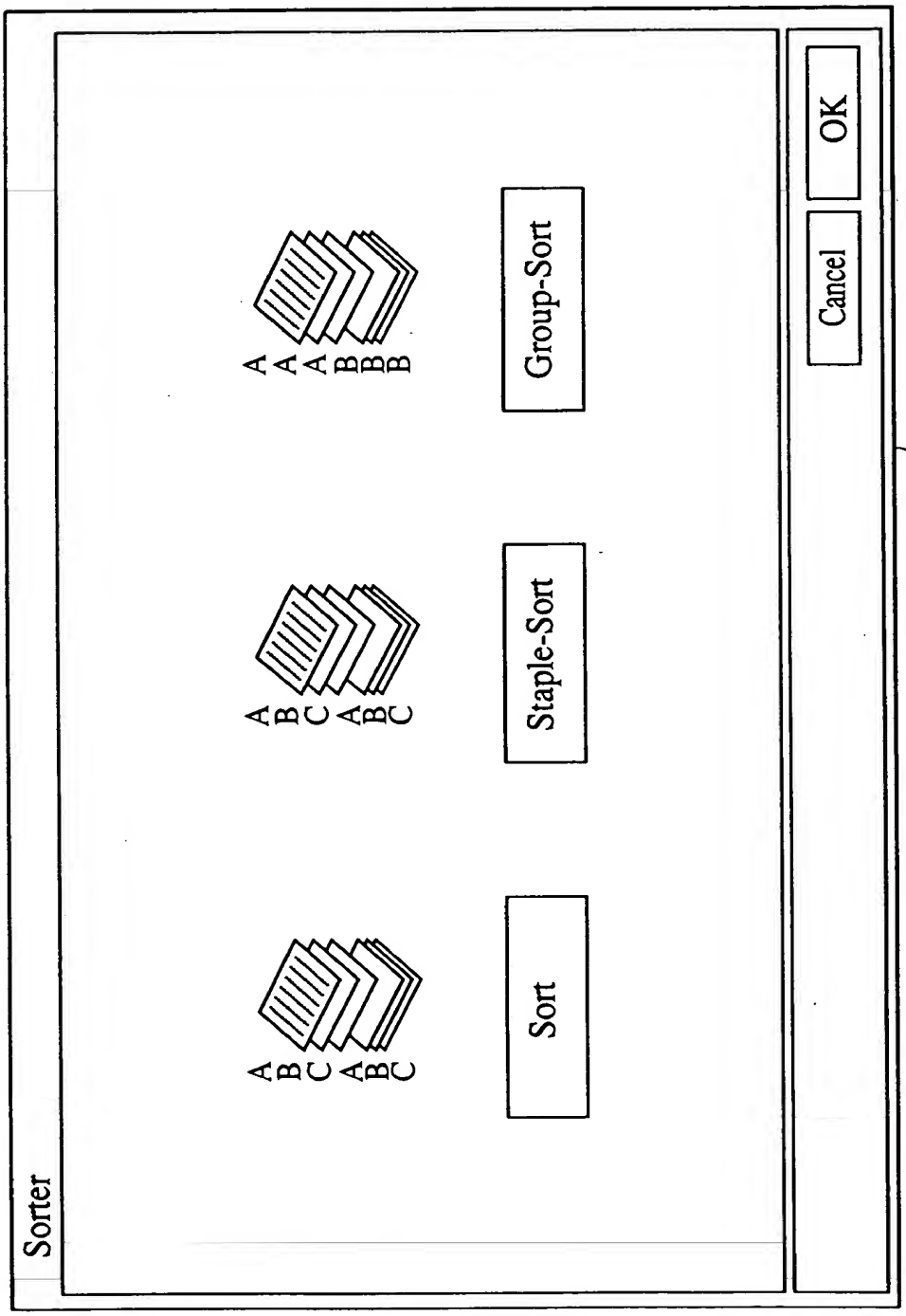

Sorter
A
B
C
A
B
C
Sort
A
B
C
A
B
C
Staple-Sort
A
A
A
B
B
B
Group-Sort
Cancel
OK
3150

FIG. 23

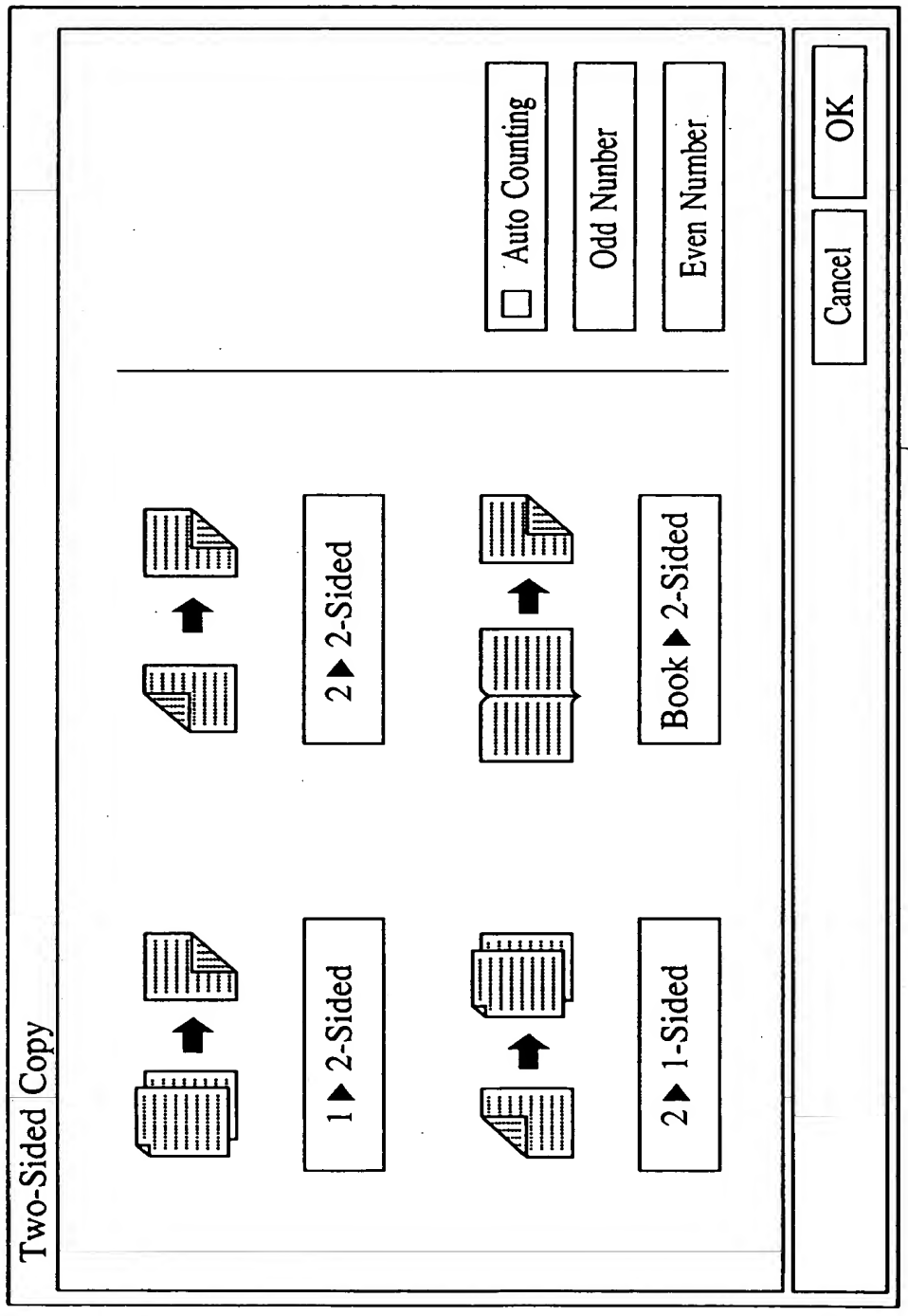

Two-Sided Copy
1▶ 2-Sided
2▶ 2-Sided
2▶ 1-Sided
Book▶ 2-Sided
Auto Counting
Odd Number
Even Number
Cancel
OK
3160

FIG. 24

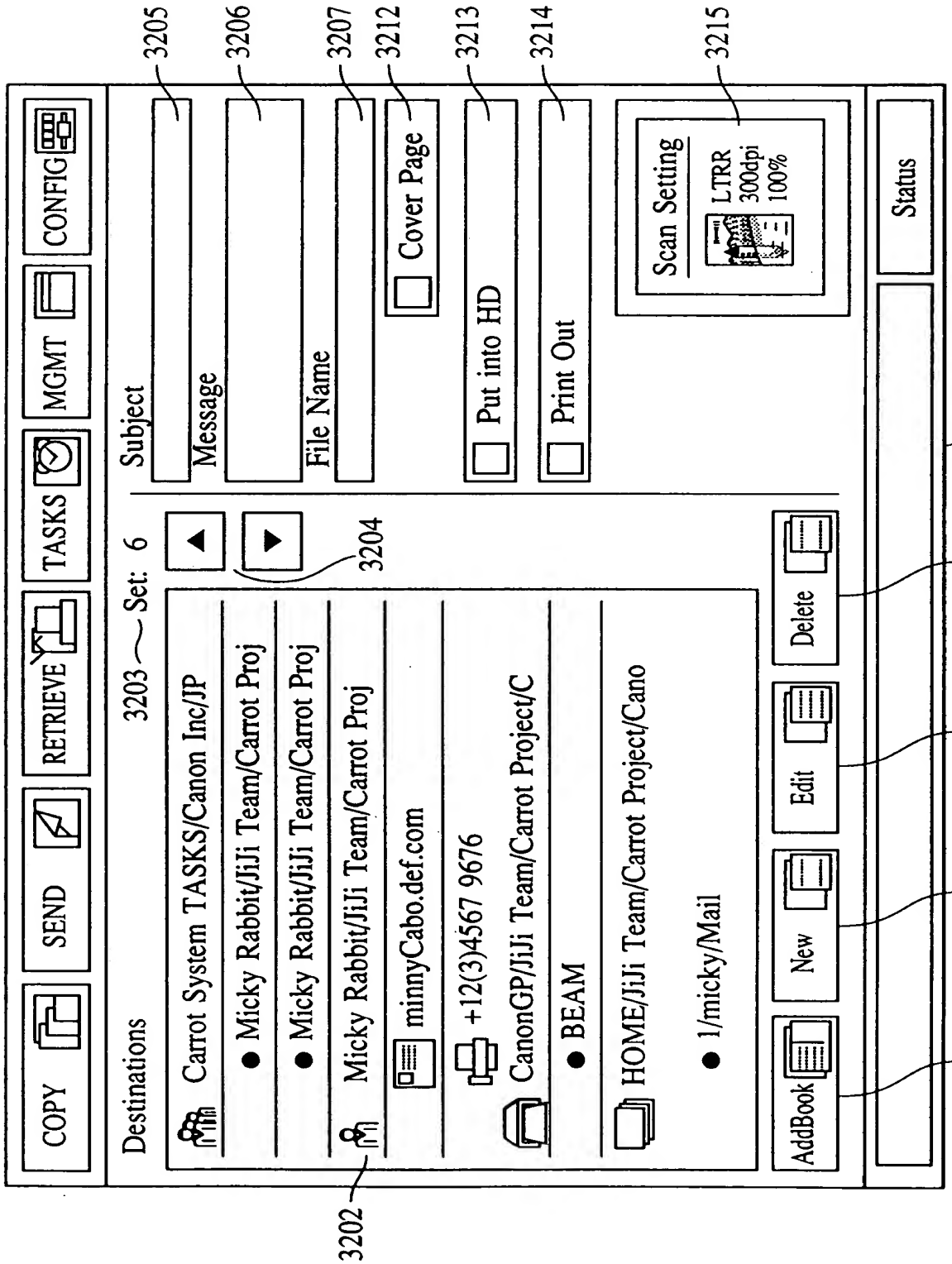

COPY
SEND
RETRIEVE
TASKS
MGMT
CONFIG
Destinations
3203
Set: 6
Carrot System TASKS/Canon Inc/JP
Micky Rabbit/JiJi Team/Carrot Proj
Micky Rabbit/JiJi Team/Carrot Proj
Micky Rabbit/JiJi Team/Carrot Proj
minnyCabo.def.com
+12(3)4567 9676
CanonGP/JiJi Team/Carrot Project/C
BEAM
HOME/JiJi Team/Carrot Project/Cano
1/micky/Mail
3204
3202
Subject
Message
File Name
Cover Page
Put into HD
Print Out
Scan Setting
LTRR
300dpi
100%
AddBook
New
Edit
Delete
Status
3205
3206
3207
3212
3213
3214
3215
3208
3209
3210
3211
3200

FIG. 25

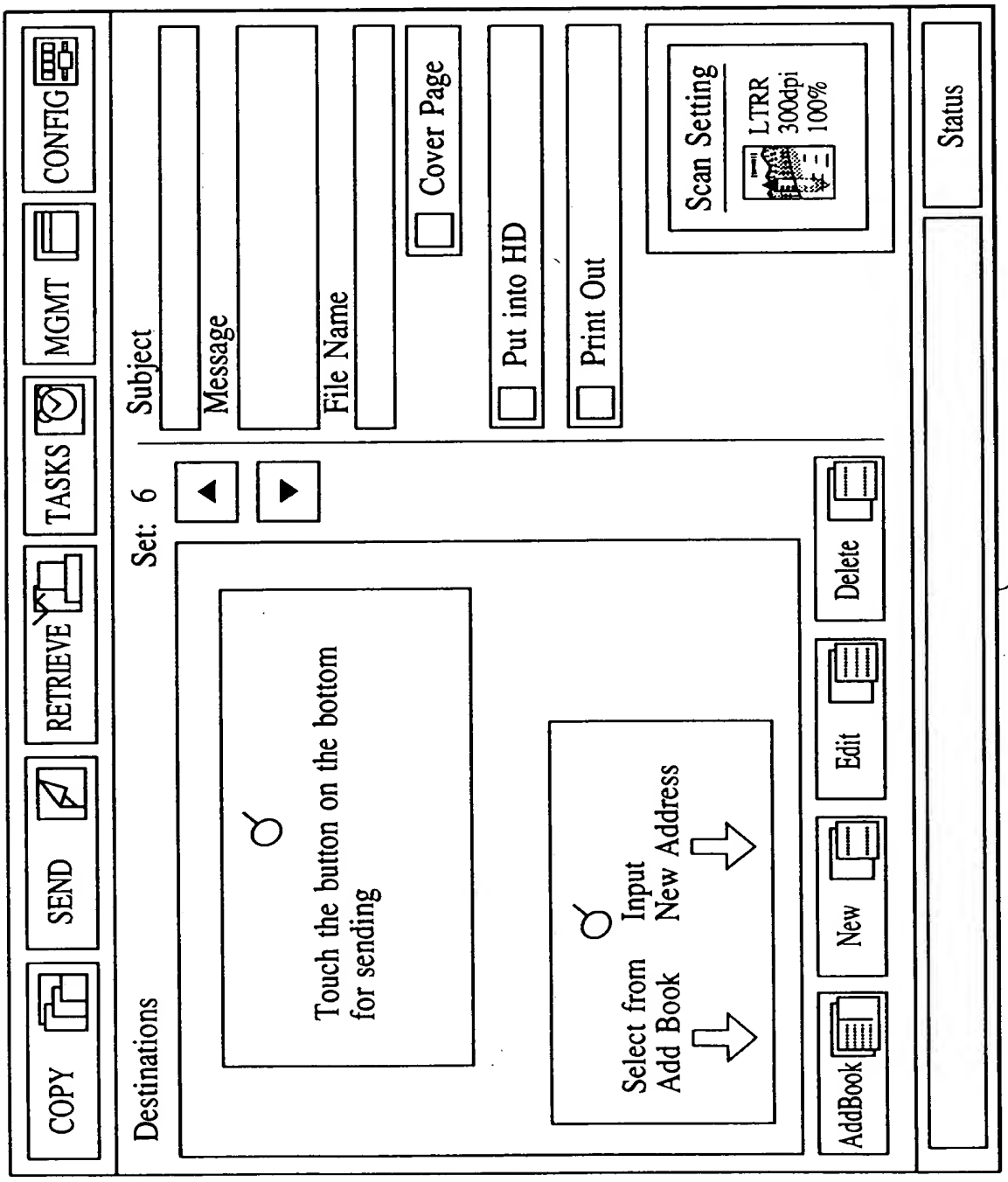

COPY
SEND
RETRIEVE
TASKS
MGMT
CONFIG
Destinations
Set: 6
Subject
Message
File Name
Cover Page
Put into HD
Print Out
Scan Setting
LTRR
300dpi
100%
Touch the button on the bottom for sending
Select from Add Book
Input New Address
AddBook
New
Edit
Delete
Status
3201

FIG. 26

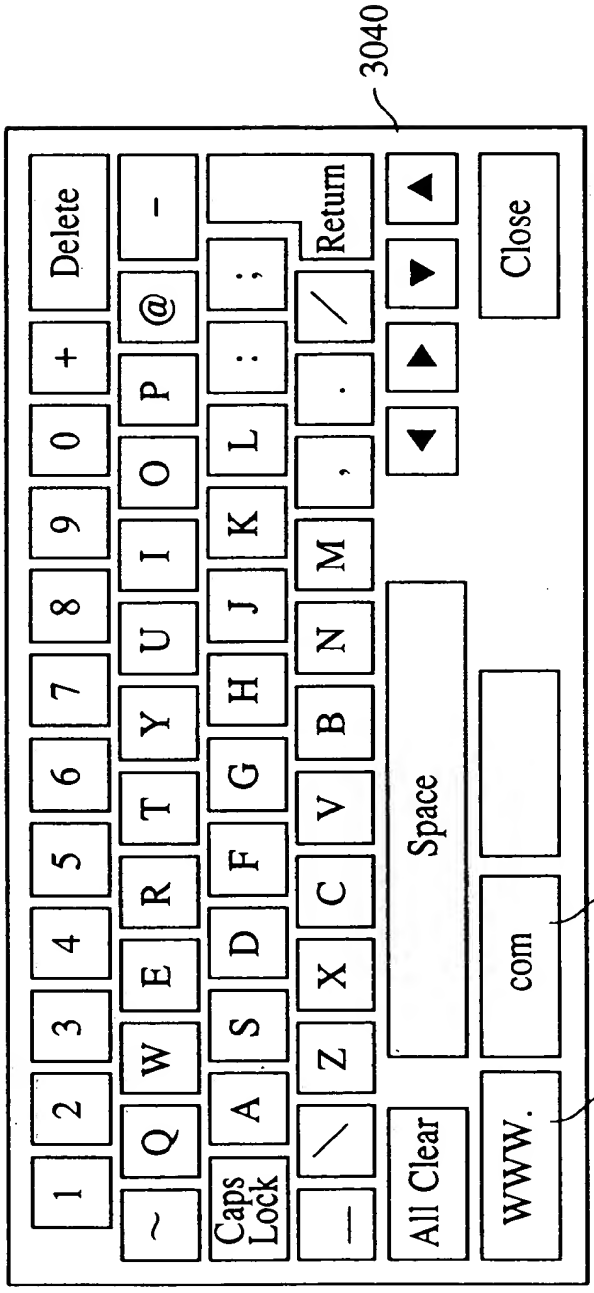

3040
1
2
3
4
5
6
7
8
9
0
+
Delete
~
Q
W
E
R
T
Y
U
I
O
P
@
-
Caps Lock
A
S
D
F
G
H
J
K
L
:
;
Return
—
/
Z
X
C
V
B
N
M
,
.
/
All Clear
Space
Close
WWW.
com
3041
3042

FIG. 27

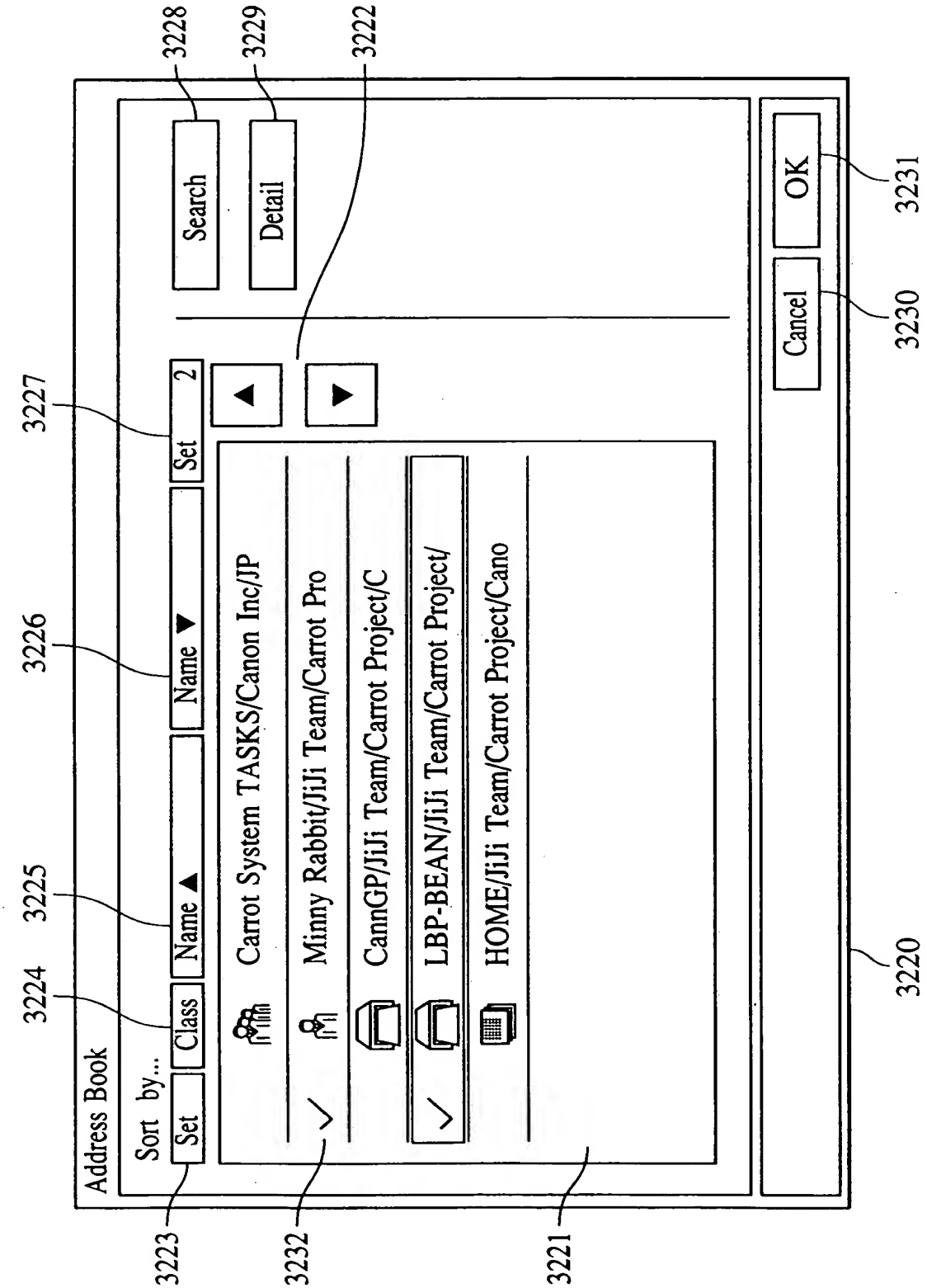

Address Book
Sort by...
Set
Class
Name ▲
Name ▼
Set 2
Search
Detail
Carrot System TASKS/Canon Inc/JP
Minny Rabbit/JiJi Team/Carrot Pro
CannGP/JiJi Team/Carrot Project/C
LBP-BEAN/JiJi Team/Carrot Project/
HOME/JiJi Team/Carrot Project/Cano
Cancel
OK
3220
3221
3222
3223
3224
3225
3226
3227
3228
3229
3230
3231
3232

FIG. 28

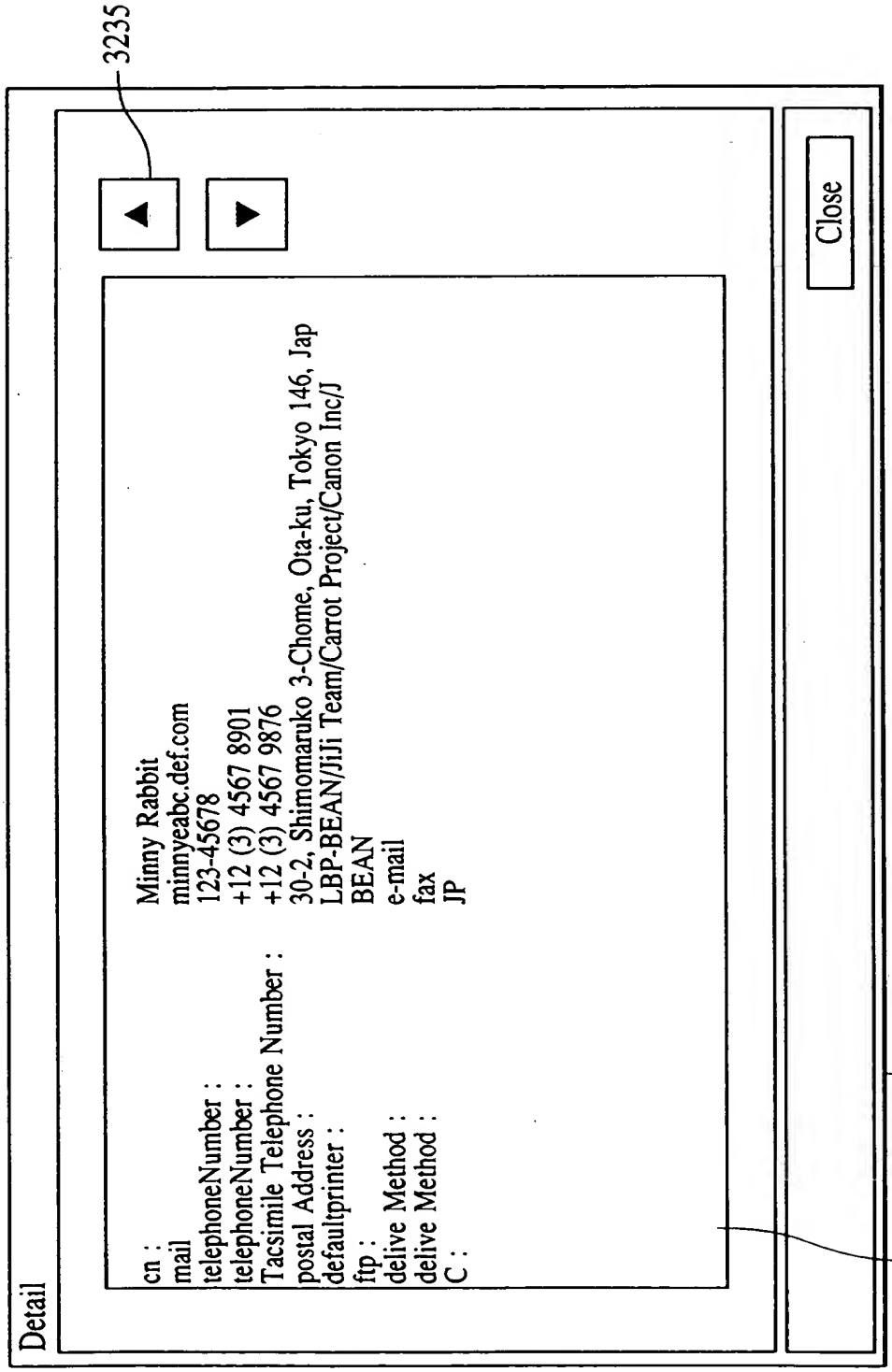

Detail
cn :
mail
telephoneNumber :
telephoneNumber :
Tacsimile Telephone Number :
postal Address :
defaultprinter :
ftp :
delive Method :
delive Method :
C :
Minny Rabbit
minnyeabc.def.com
123-45678
+12 (3) 4567 8901
+12 (3) 4567 9876
30-2, Shimomaruko 3-Chome, Ota-ku, Tokyo 146, Jap
LBP-BEAN/JiJi Team/Carrot Project/Canon Inc/J
BEAN
e-mail
fax
JP
Close
3235
2235
3236

FIG. 29

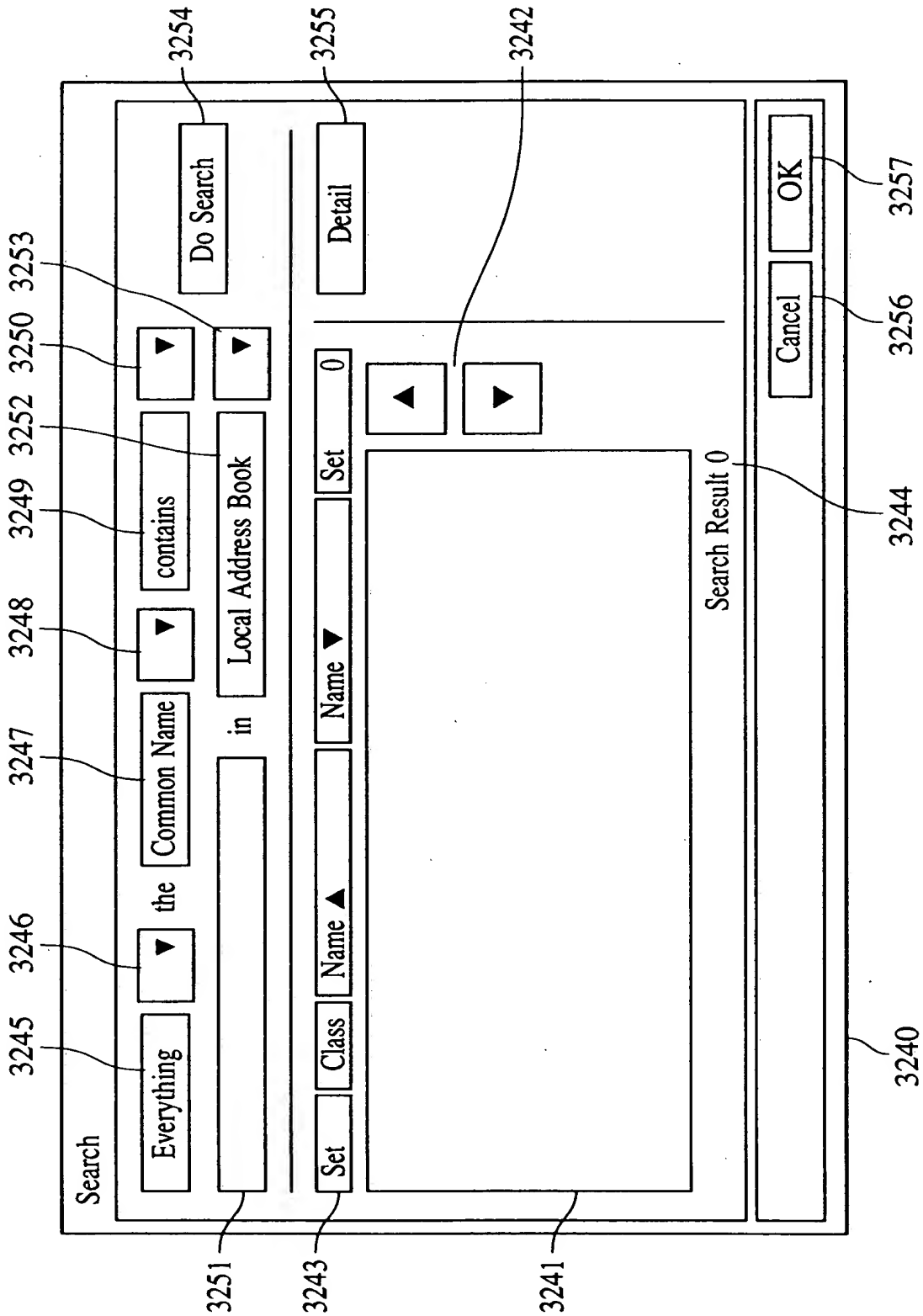

Search
Everything
the
Common Name
in
Local Address Book
Do Search
contains
Detail
Set
Class
Name
Name
Set
0
Search Result 0
Cancel
OK
3240
3241
3242
3243
3244
3245
3246
3247
3248
3249
3250
3251
3252
3253
3254
3255
3256
3257

FIG. 30

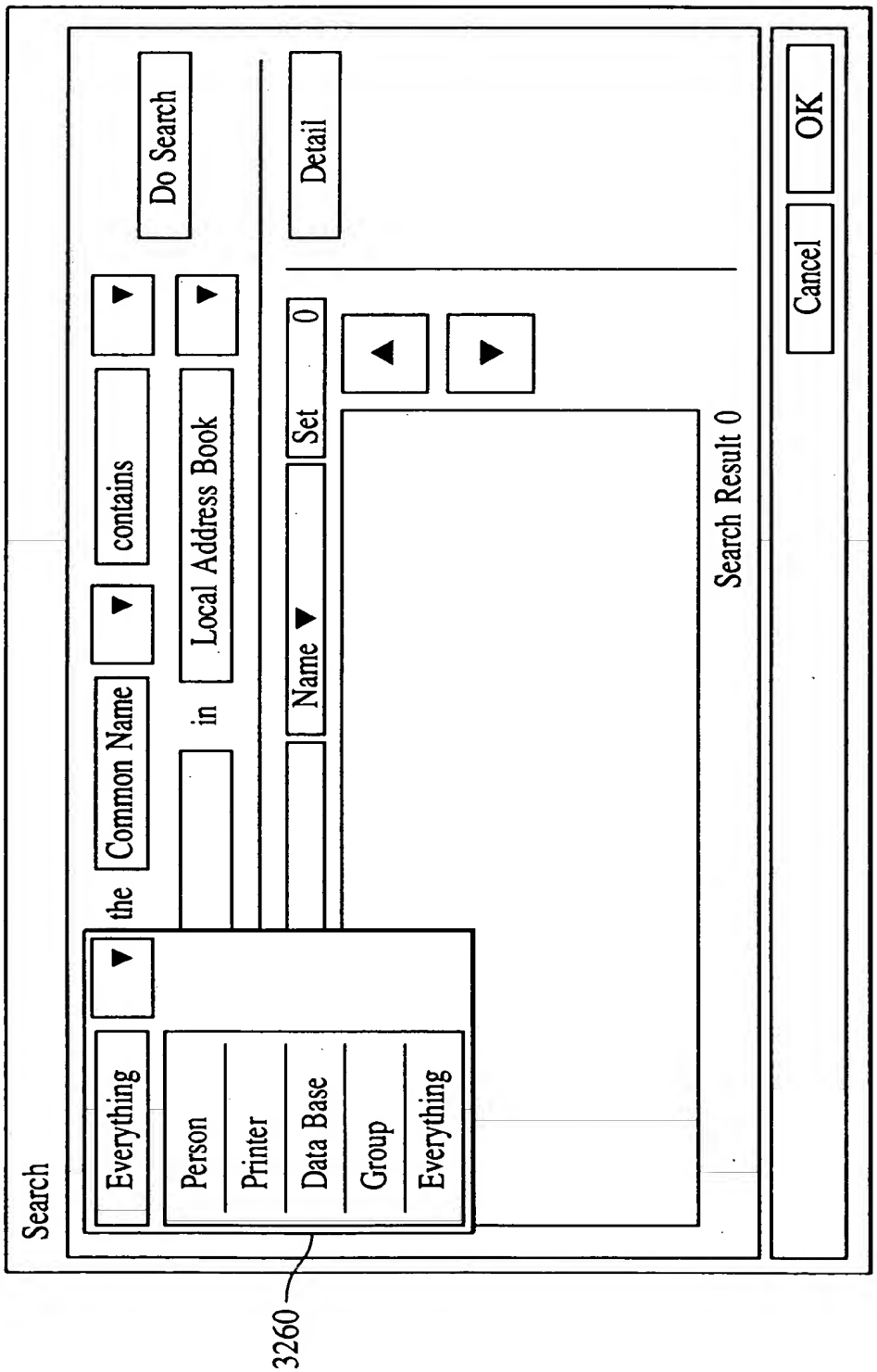

Search
Everything
Person
Printer
Data Base
Group
Everything
the
Common Name
contains
in
Local Address Book
Do Search
Name
Set
0
Detail
Search Result 0
Cancel
OK
3260

FIG. 31

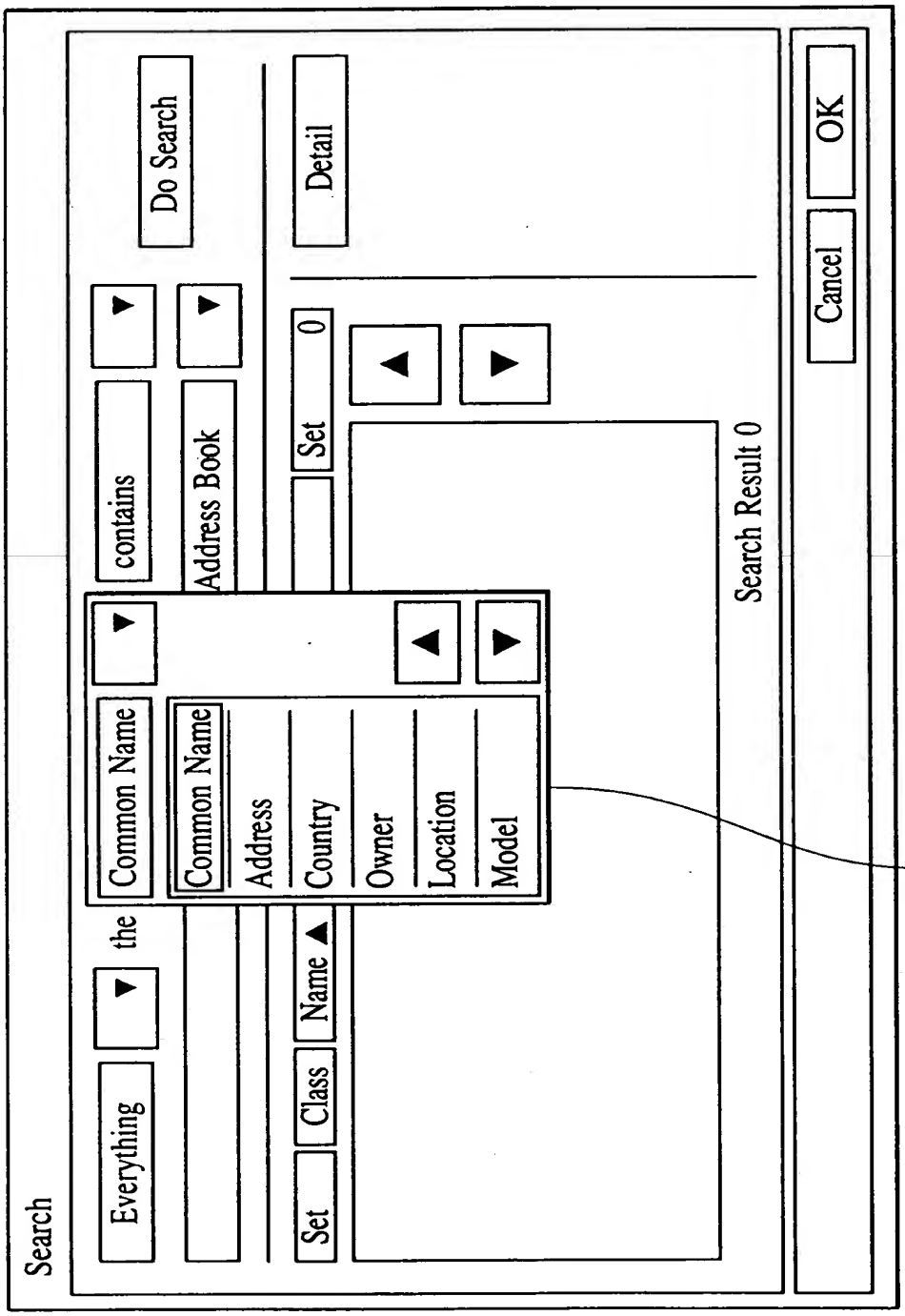

Search
Everything
the
Common Name
contains
Do Search
Common Name
Address Book
Address
Set
Class
Name
Country
Owner
Location
Model
Set 0
Detail
Search Result 0
Cancel
OK
3261

FIG. 32

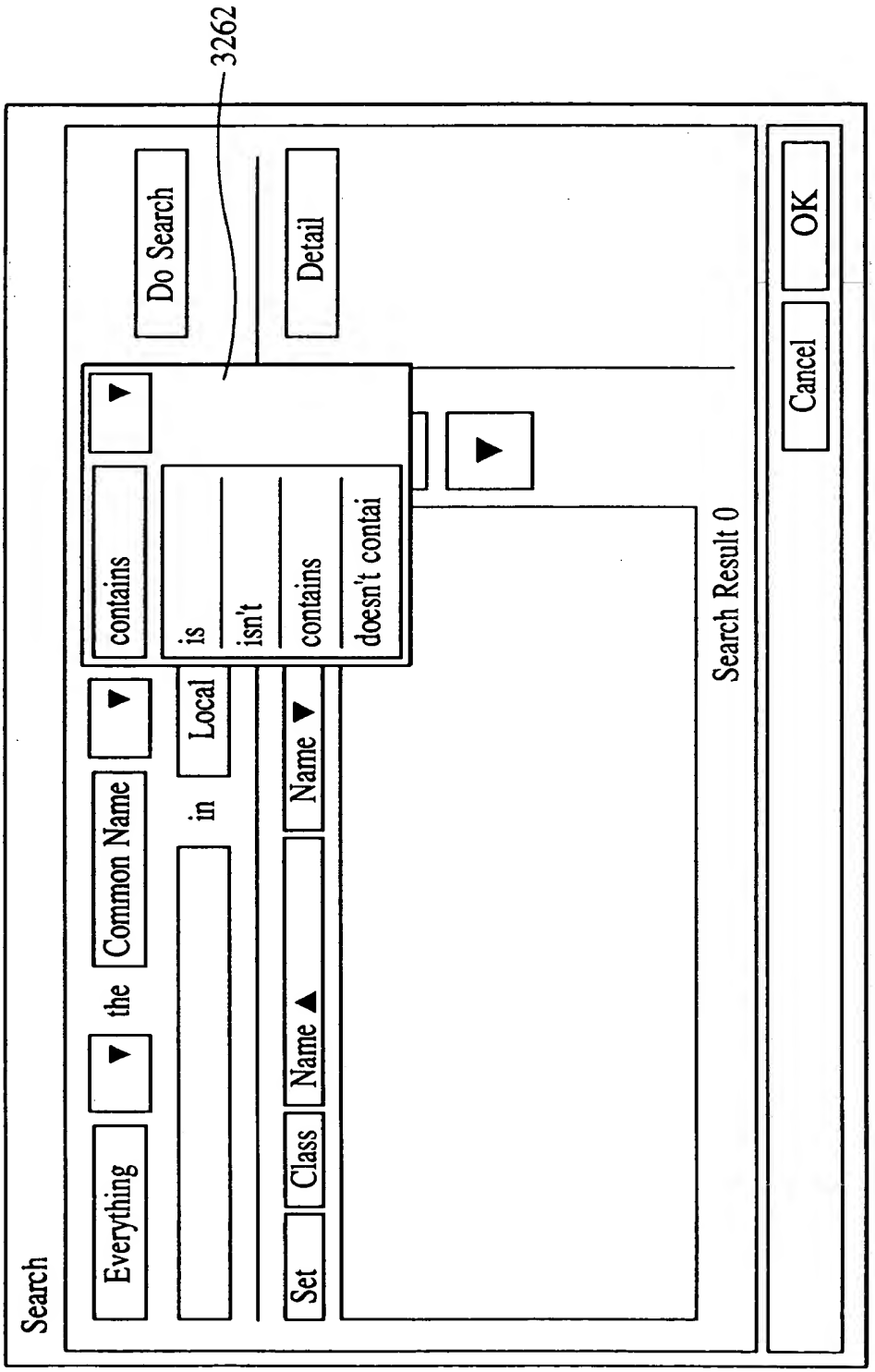

3262
Search
Everything
the
Common Name
in
Local
Set
Class
Name
Name
contains
is
isn't
contains
doesn't contai
Do Search
Detail
Search Result 0
Cancel
OK

FIG. 33

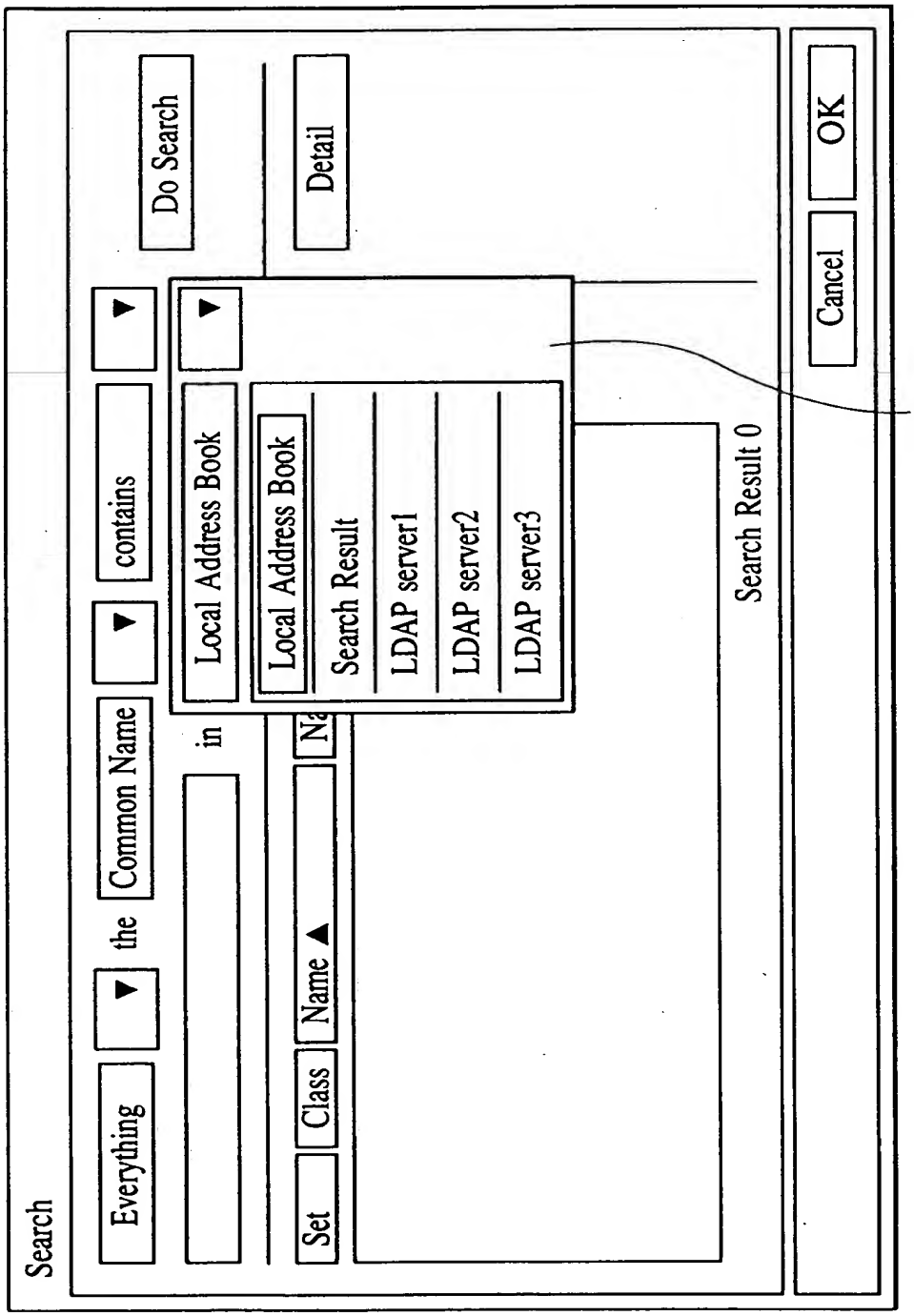

Search
Everything
the
Common Name
contains
Do Search
in
Local Address Book
Detail
Set
Class
Name
Search Result 0
Local Address Book
Search Result
LDAP server1
LDAP server2
LDAP server3
Cancel
OK
3263

FIG. 34

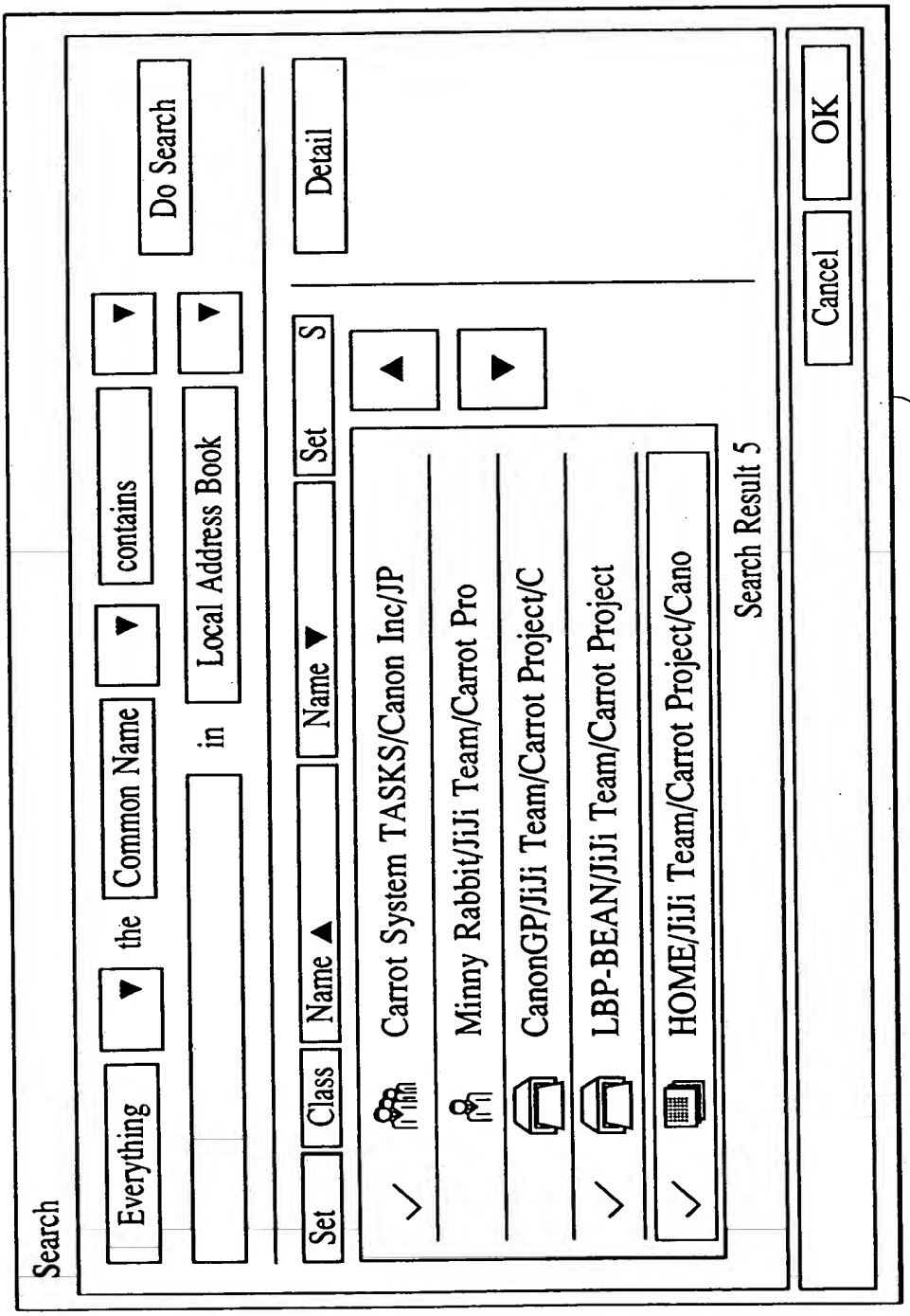

Search
Everything
the
Common Name
contains
Do Search
in
Local Address Book
Set
Class
Name
Name
Set
S
Detail
Carrot System TASKS/Canon Inc/JP
Minny Rabbit/JiJi Team/Carrot Pro
CanonGP/JiJi Team/Carrot Project/C
LBP-BEAN/JiJi Team/Carrot Project
HOME/JiJi Team/Carrot Project/Cano
Search Result 5
Cancel
OK
3265

FIG. 35

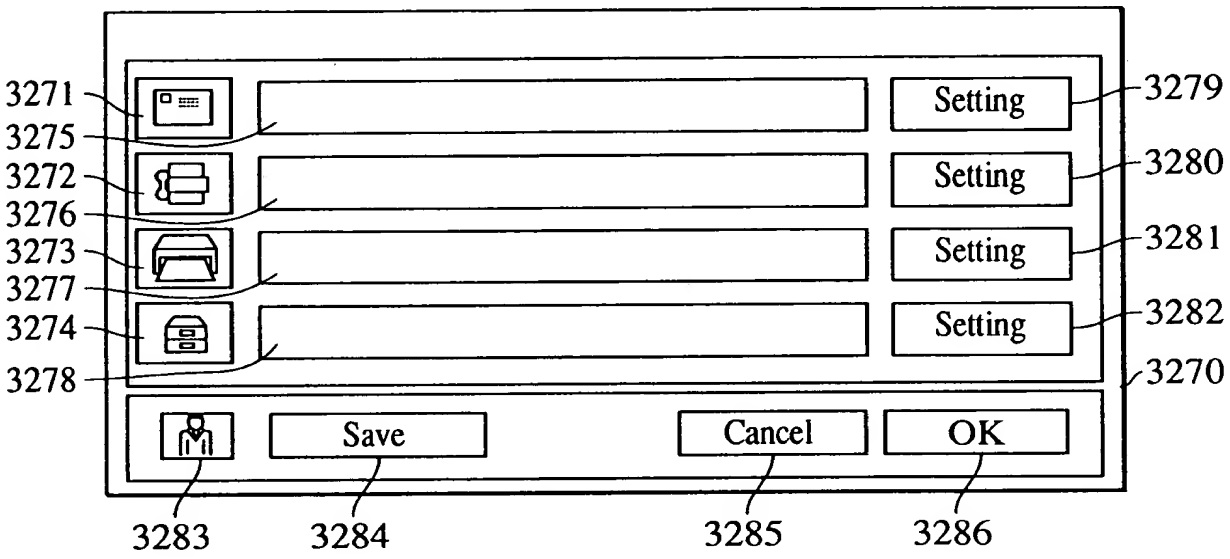

3271
3275
3272
3276
3273
3277
3274
3278
Setting
Setting
Setting
Setting
3279
3280
3281
3282
3270
Save
Cancel
OK
3283
3284
3285
3286

FIG. 36

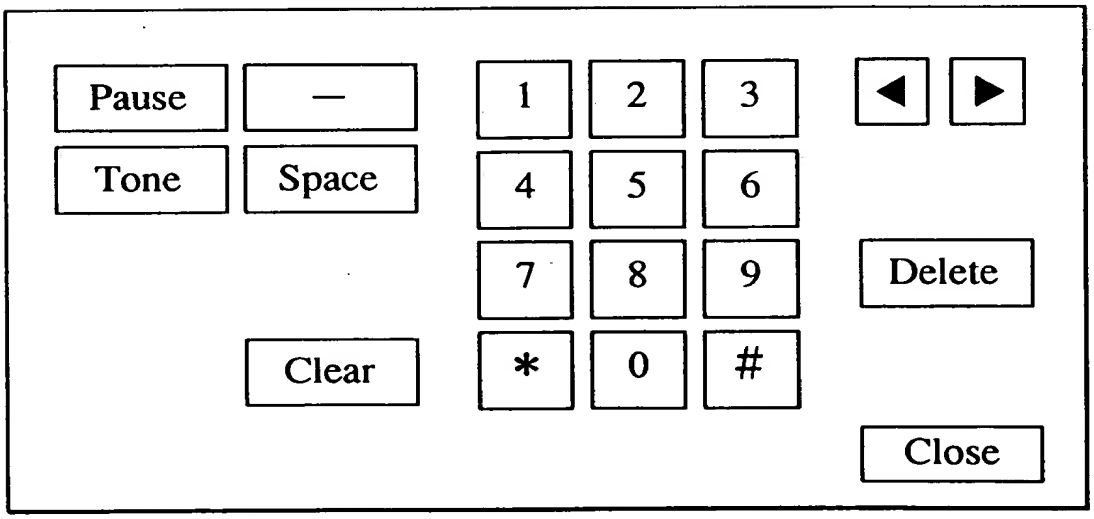

Pause
—
Tone
Space
Clear
1
2
3
4
5
6
7
8
9
*
0
#
Delete
Close

FIG. 37

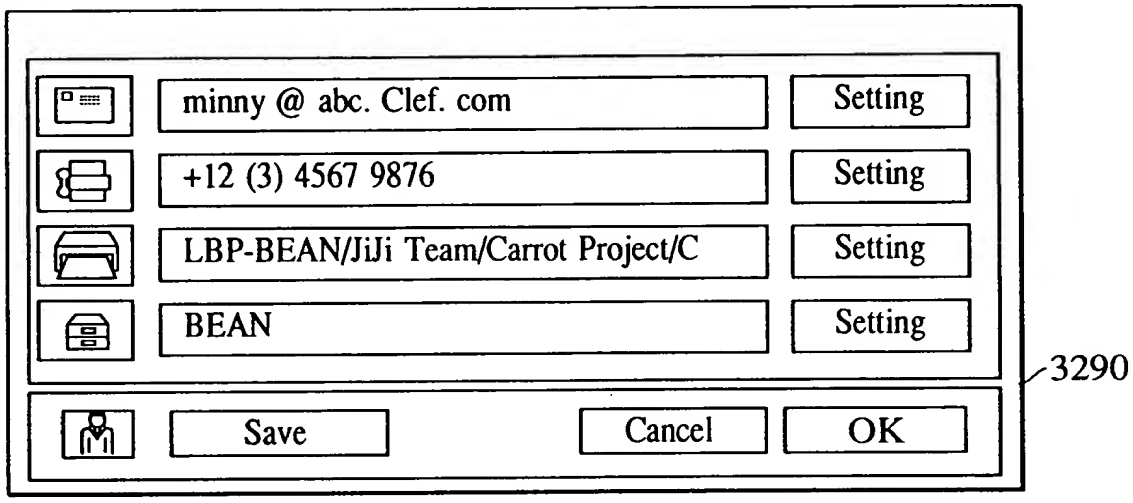

minny @ abc. Clef. com
Setting
+12 (3) 4567 9876
Setting
LBP-BEAN/JiJi Team/Carrot Project/C
Setting
BEAN
Setting
3290
Save
Cancel
OK

FIG. 38

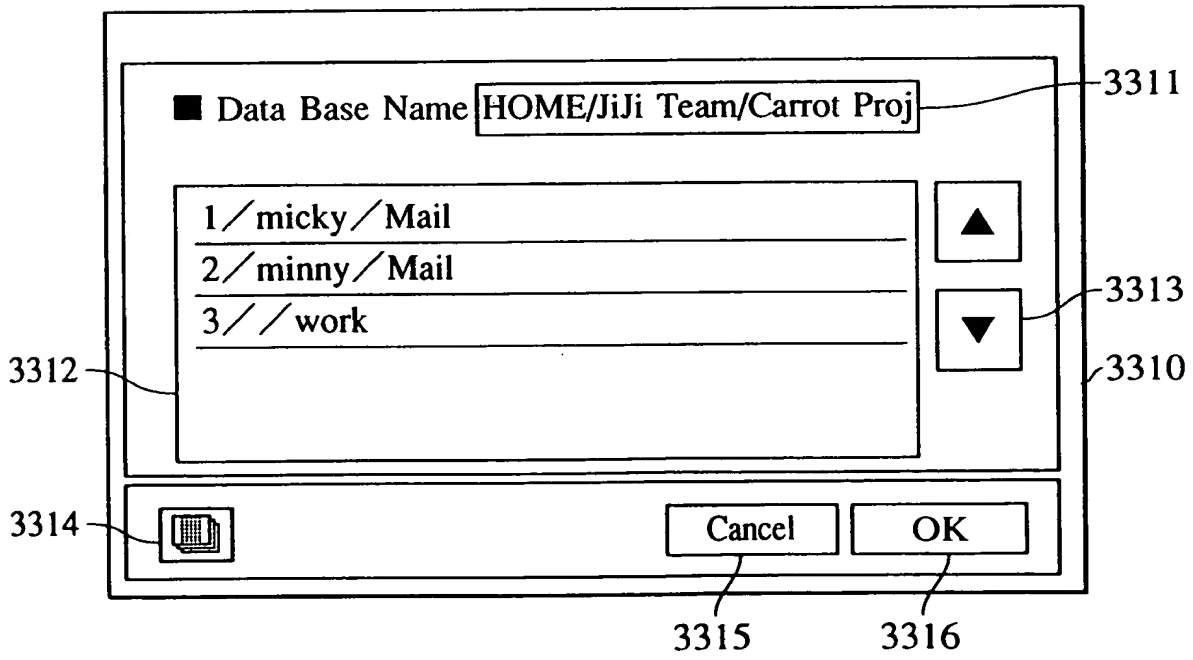

Data Base Name
HOME/JiJi Team/Carrot Proj
3311
1/micky/Mail
2/minny/Mail
3/ /work
3313
3312
3310
3314
Cancel
OK
3315
3316

FIG. 39

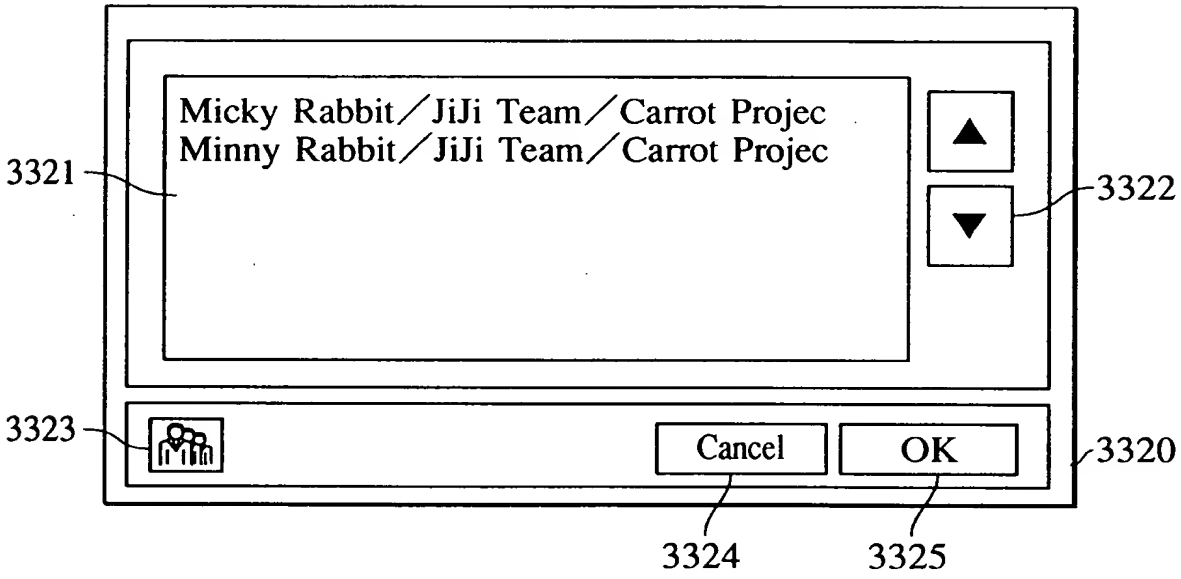

Micky Rabbit/JiJi Team/Carrot Projec
Minny Rabbit/JiJi Team/Carrot Projec
3321
3322
3323
Cancel
OK
3320
3324
3325

FIG. 40

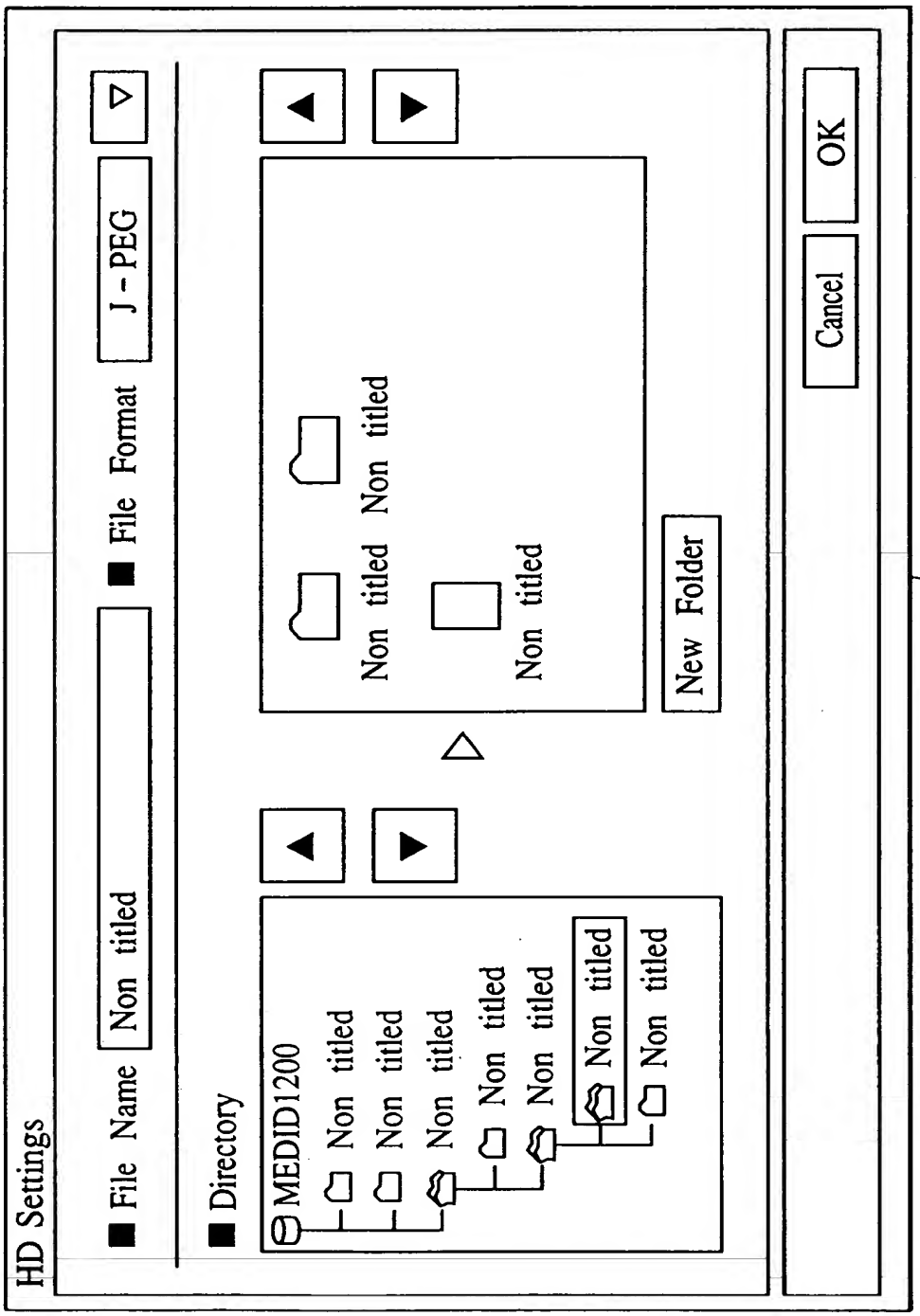

HD Settings
File Name
Non titled
File Format
J - PEG
Directory
MEDID1200
Non titled
Non titled
Non titled
Non titled
Non titled
Non titled
Non titled
Non titled
Non titled
Non titled
New Folder
Cancel
OK
3330

FIG. 41

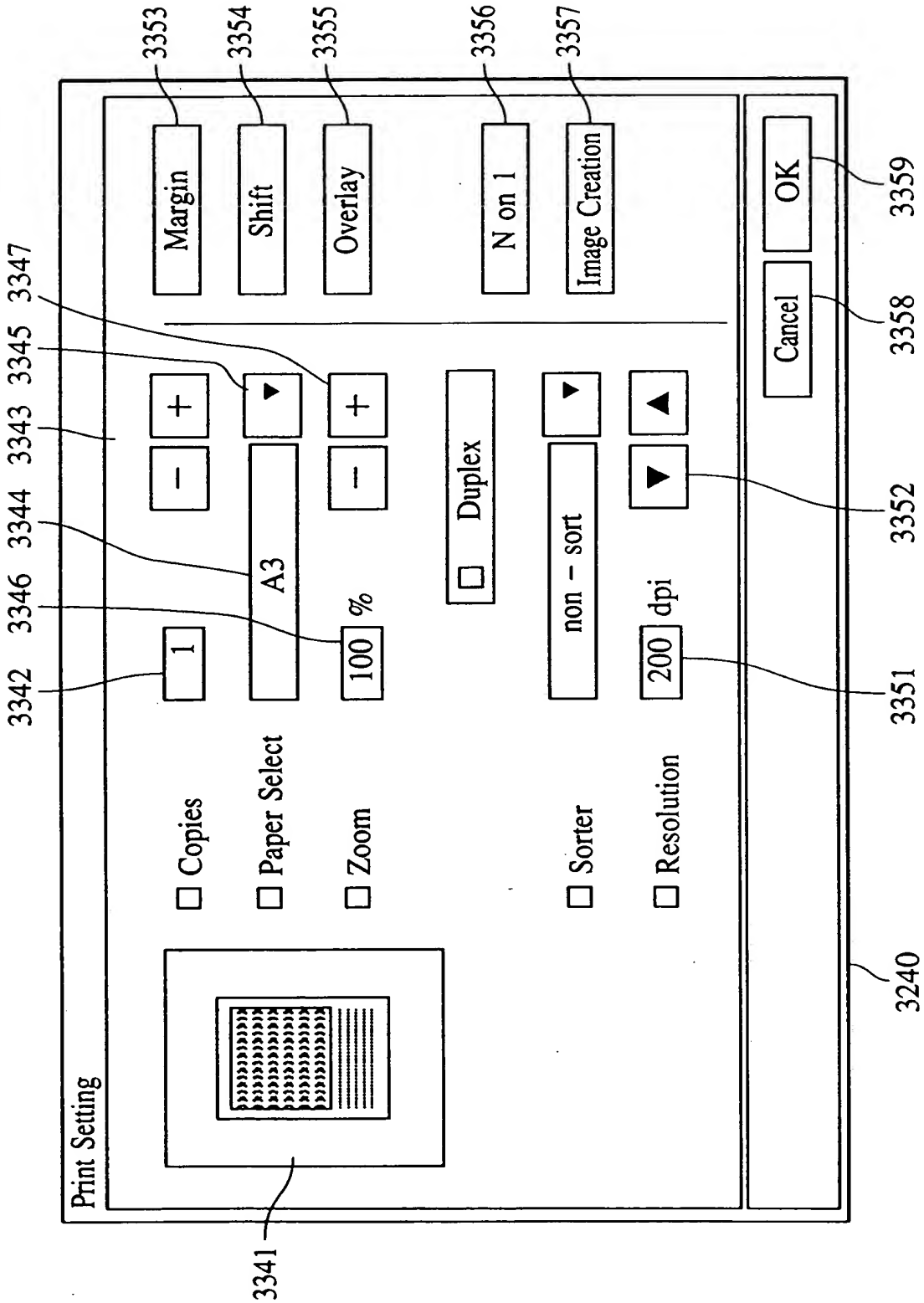

Print Setting
Copies
Paper Select
Zoom
Duplex
Sorter
Resolution
1
A3
100
%
non – sort
200
dpi
Margin
Shift
Overlay
N on 1
Image Creation
Cancel
OK
3240
3341
3342
3343
3344
3345
3346
3347
3351
3352
3353
3354
3355
3356
3357
3358
3359

FIG. 42

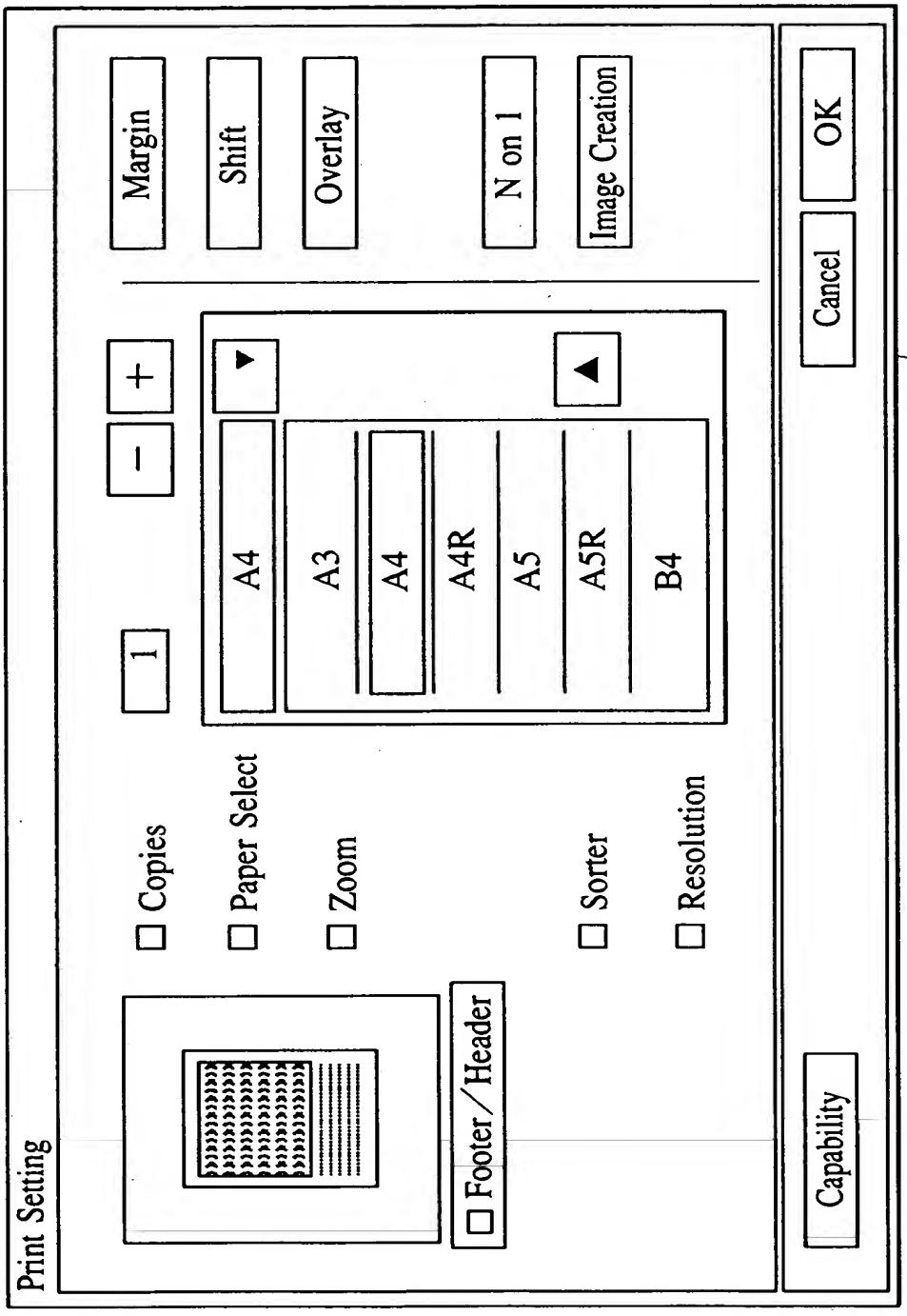

Print Setting
Copies
1
Paper Select
A4
A3
A4
A4R
A5
A5R
B4
Zoom
Sorter
Resolution
Footer/Header
Capability
Margin
Shift
Overlay
N on 1
Image Creation
Cancel
OK
3360

FIG. 43

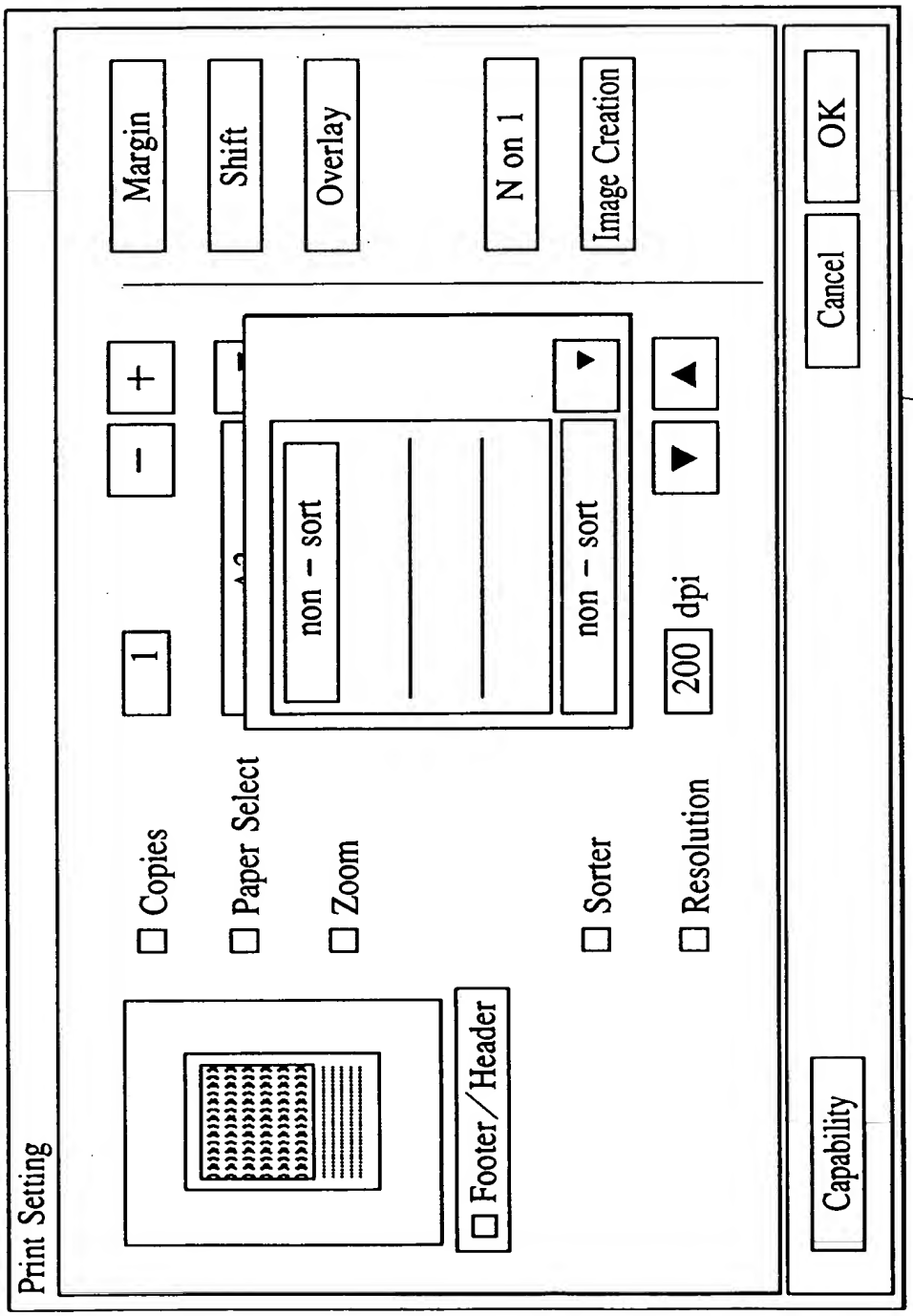

Print Setting
Copies
1
Paper Select
Zoom
non – sort
Sorter
non – sort
Resolution
200 dpi
Footer/Header
Margin
Shift
Overlay
N on 1
Image Creation
Capability
Cancel
OK
3365

FIG. 44

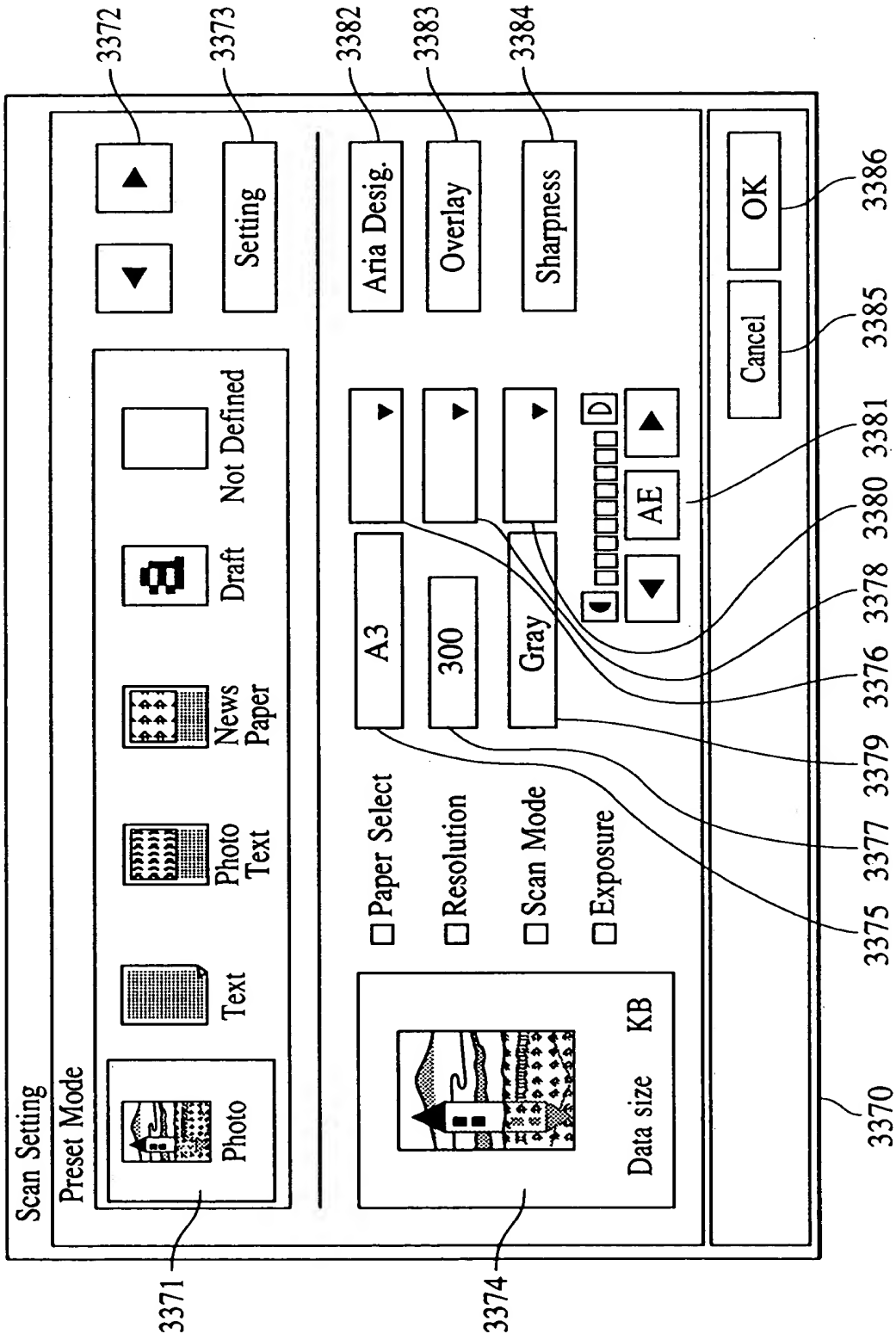

Scan Setting
Preset Mode
Photo
Text
Photo Text
News Paper
Draft
Not Defined
Paper Select
Resolution
Scan Mode
Exposure
A3
300
Gray
AE
D
Data size
KB
Setting
Aria Desig.
Overlay
Sharpness
OK
Cancel
3370
3371
3372
3373
3374
3375
3376
3377
3378
3379
3380
3381
3382
3383
3384
3385
3386

FIG. 45

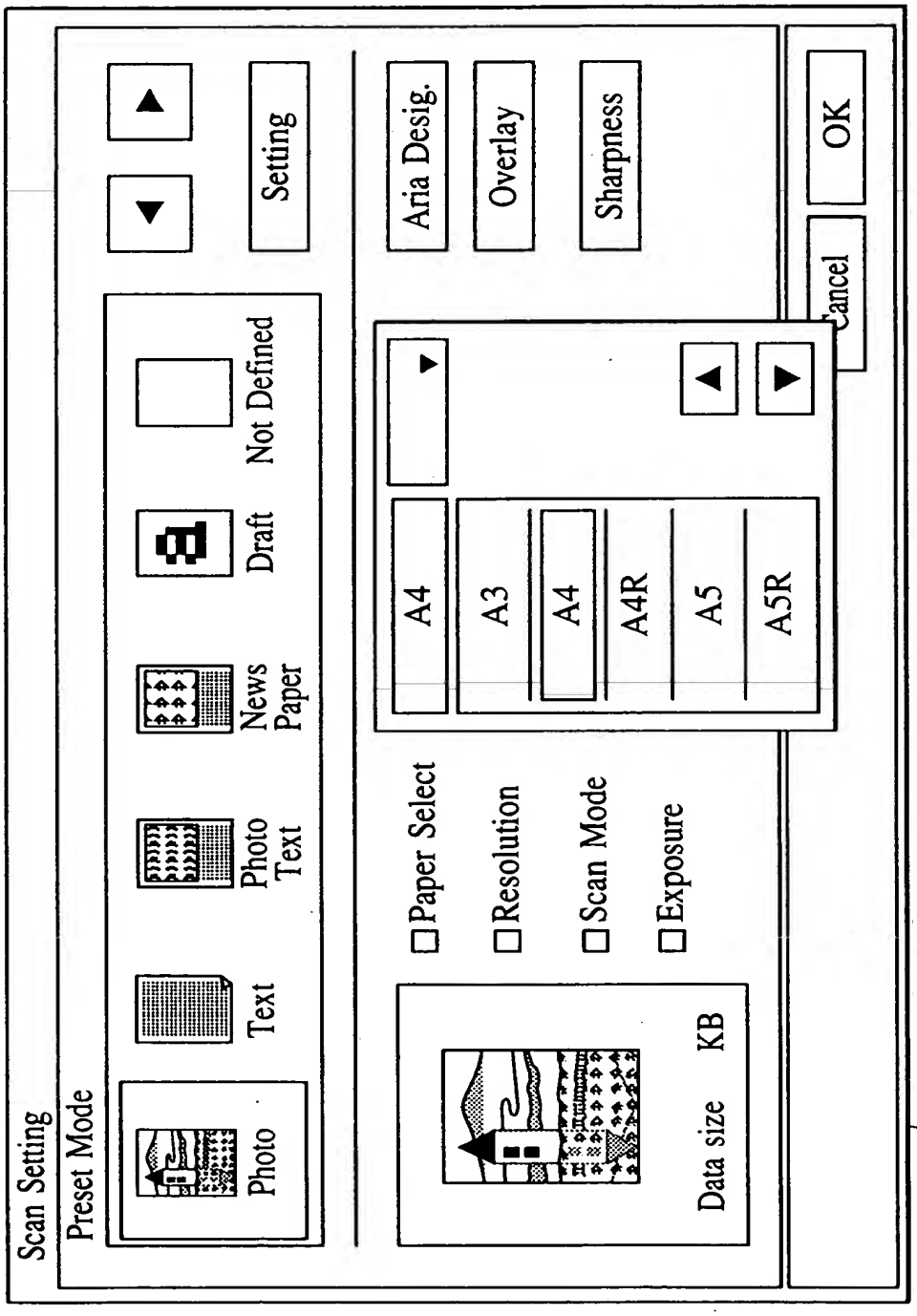

Scan Setting
Preset Mode
Photo
Text
Photo Text
News Paper
Draft
Not Defined
Setting
Aria Desig.
Overlay
Sharpness
Paper Select
Resolution
Scan Mode
Exposure
A4
A3
A4
A4R
A5
A5R
Data size KB
Cancel
OK
3390

FIG. 46

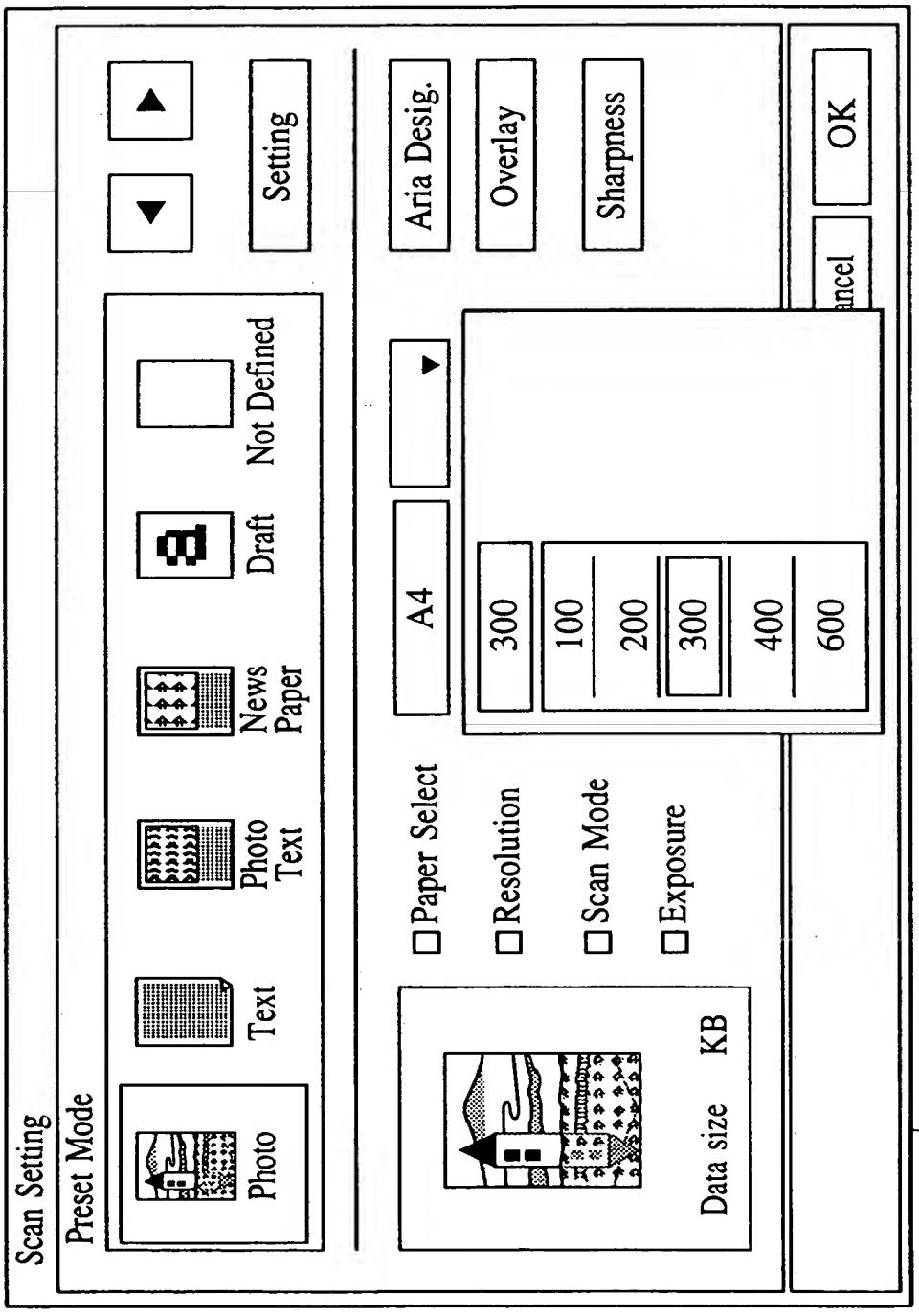

Scan Setting
Preset Mode
Photo
Text
Photo Text
News Paper
Draft
Not Defined
Setting
Aria Desig.
Overlay
Sharpness
Paper Select
A4
Resolution
300
Scan Mode
100
200
300
400
600
Exposure
Data size KB
OK
3391

FIG. 47

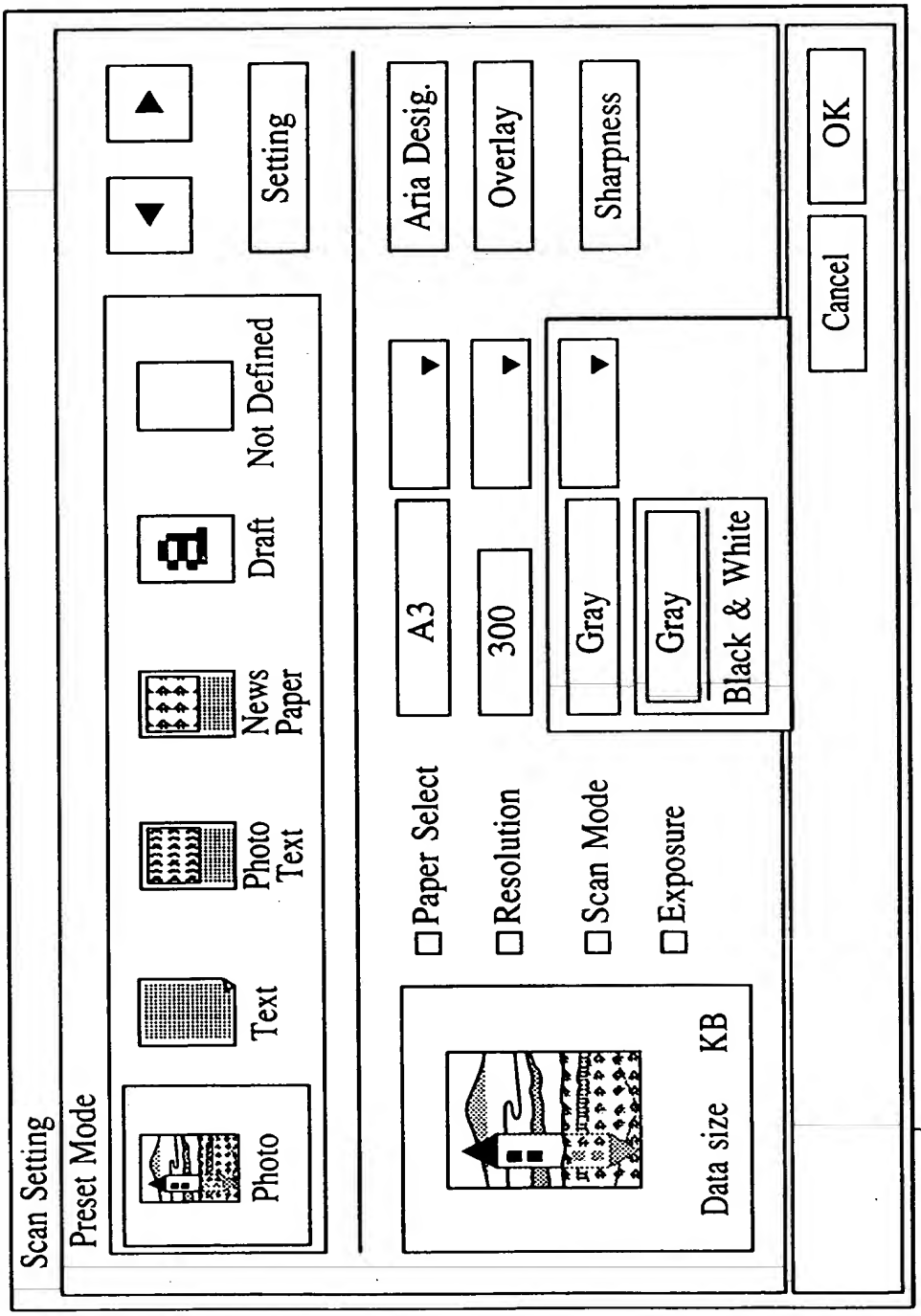

Scan Setting
Preset Mode
Photo
Text
Photo Text
News Paper
Draft
Not Defined
Setting
Paper Select
A3
Aria Desig.
Resolution
300
Overlay
Scan Mode
Gray
Sharpness
Exposure
Gray
Black & White
Data size KB
Cancel
OK
3392

FIG. 48

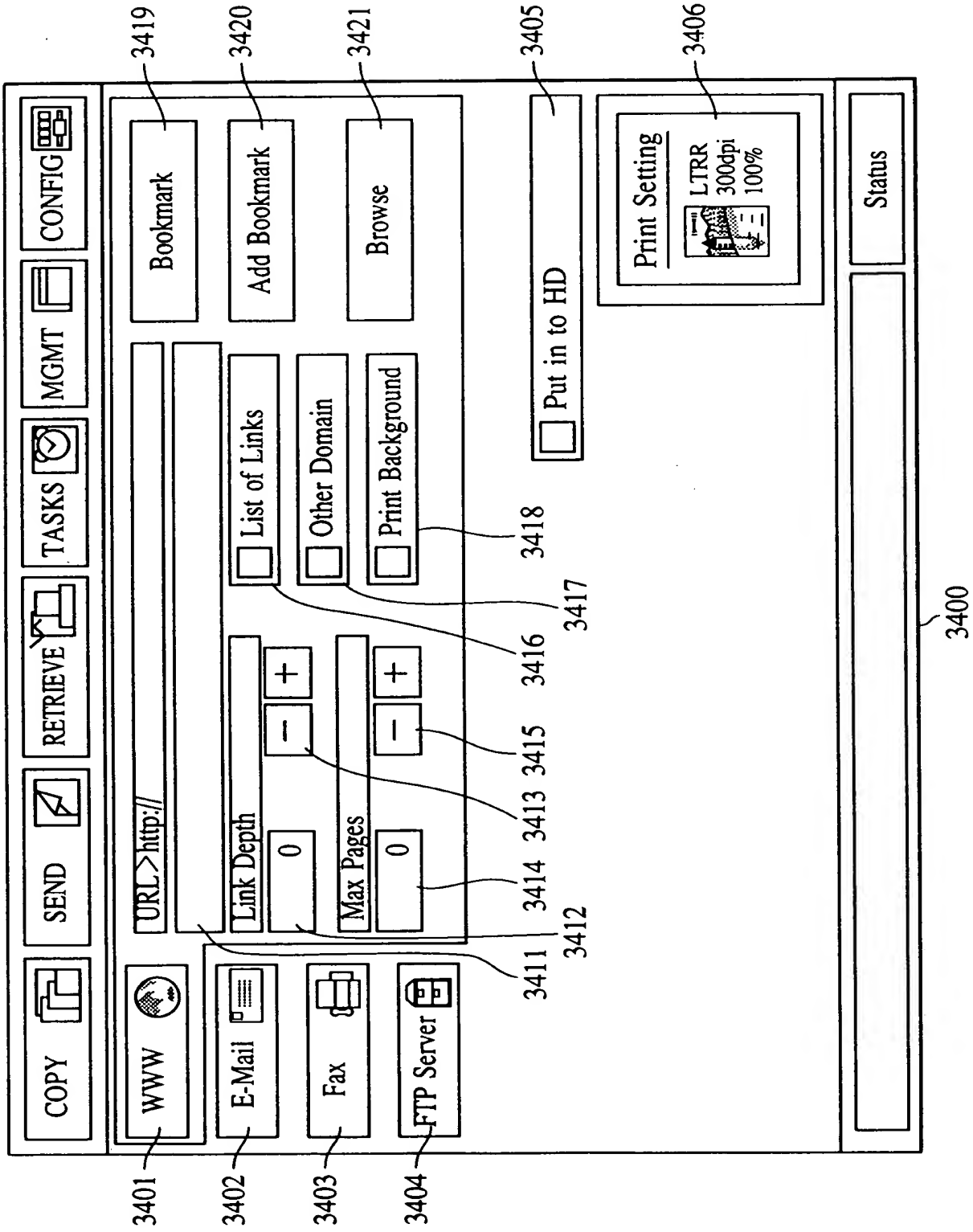

COPY
SEND
RETRIEVE
TASKS
MGMT
CONFIG
WWW
E-Mail
Fax
FTP Server
URL>http://
Link Depth
0
Max Pages
0
Bookmark
Add Bookmark
Browse
List of Links
Other Domain
Print Background
Put in to HD
Print Setting
LTRR
300dpi
100%
Status
3400
3401
3402
3403
3404
3405
3406
3411
3412
3413
3414
3415
3416
3417
3418
3419
3420
3421

FIG. 49

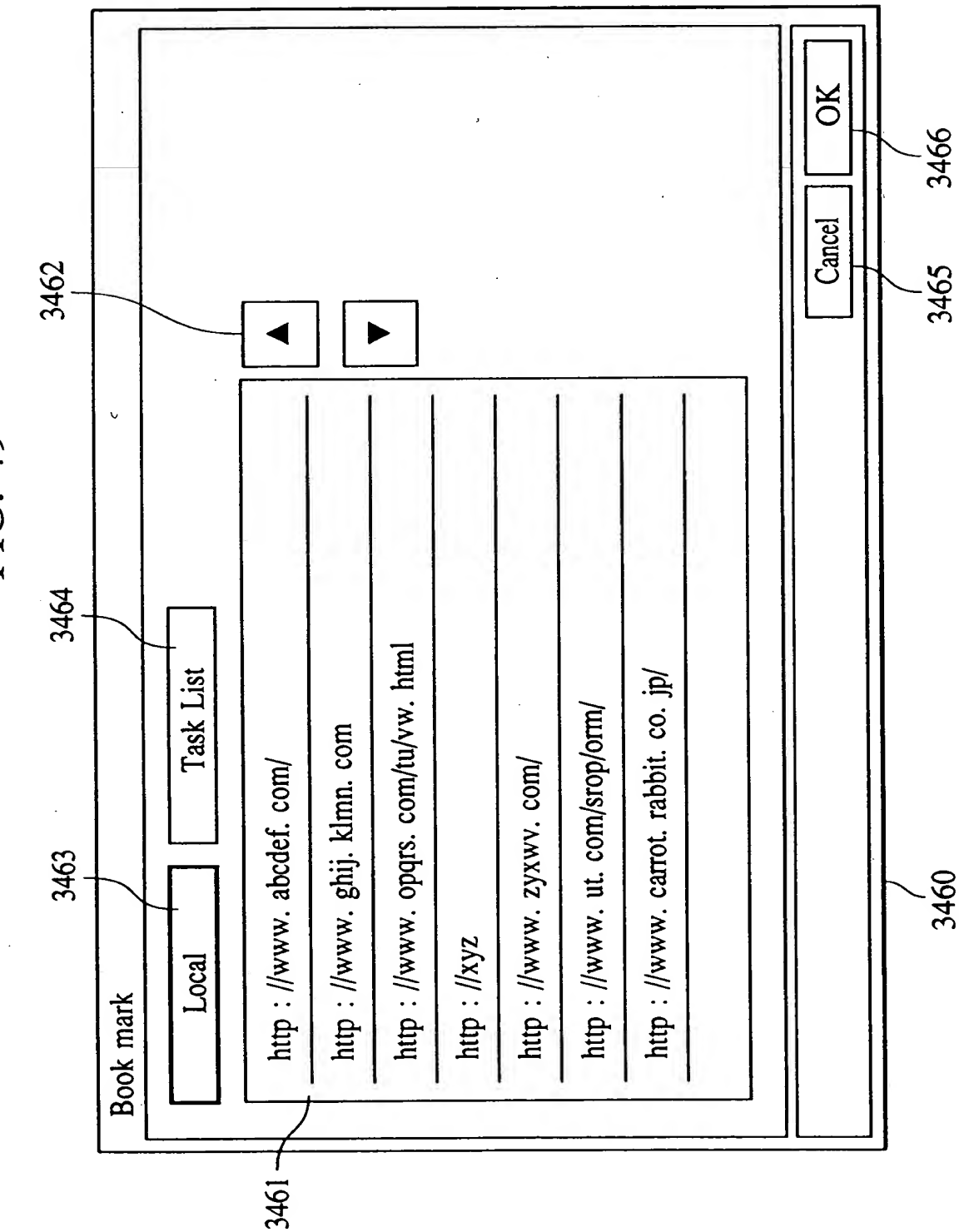

Book mark
Local
Task List
http : //www. abcdef. com/
http : //www. ghij. klmn. com
http : //www. opqrs. com/tu/vw. html
http : //xyz
http : //www. zyxwv. com/
http : //www. ut. com/srop/orm/
http : //www. carrot. rabbit. co. jp/
Cancel
OK
3460
3461
3462
3463
3464
3465
3466

FIG. 50

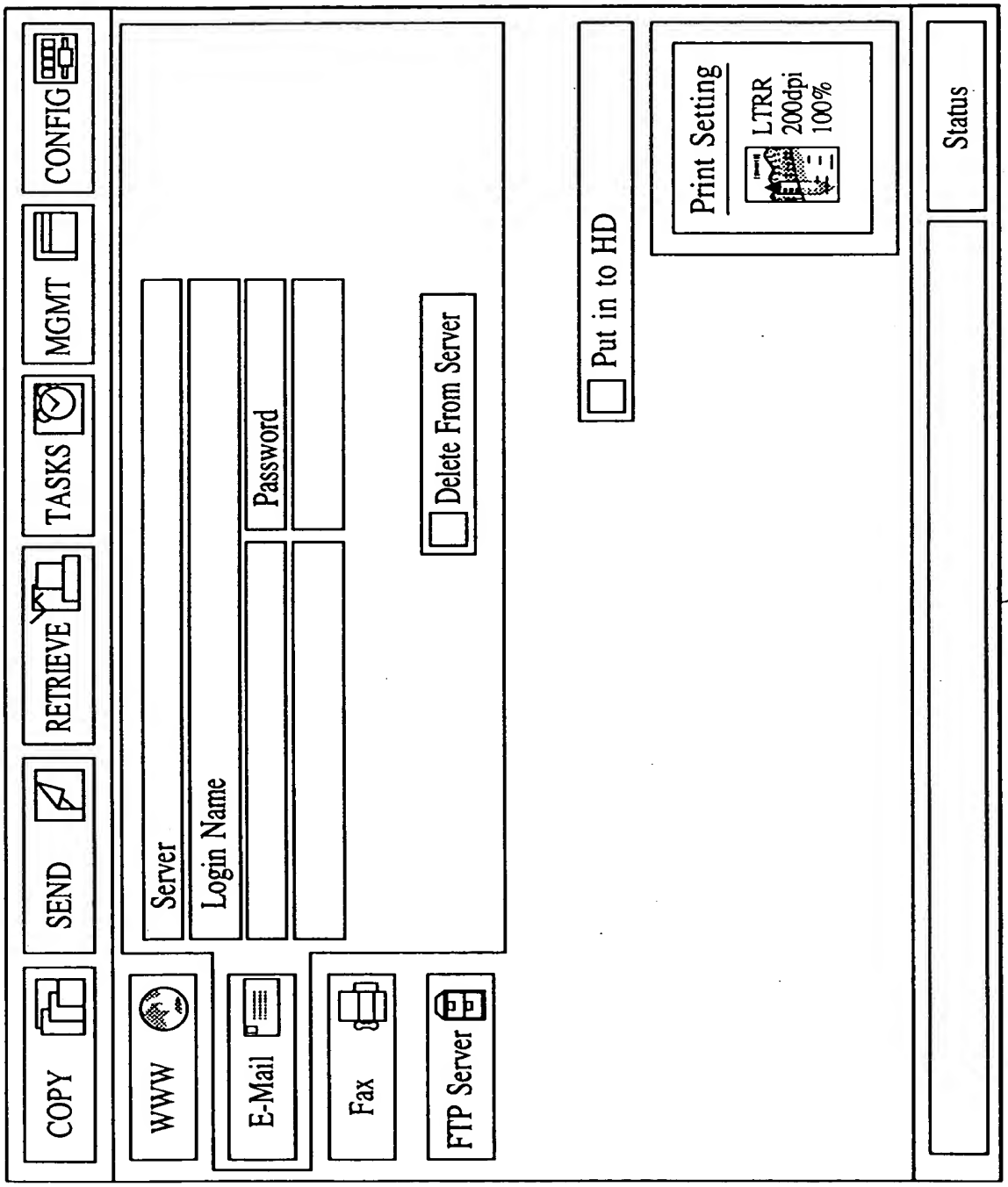

COPY
SEND
RETRIEVE
TASKS
MGMT
CONFIG
WWW
E-Mail
Fax
FTP Server
Server
Login Name
Password
Delete From Server
Put in to HD
Print Setting
LTRR
200dpi
100%
Status
3430

FIG. 51

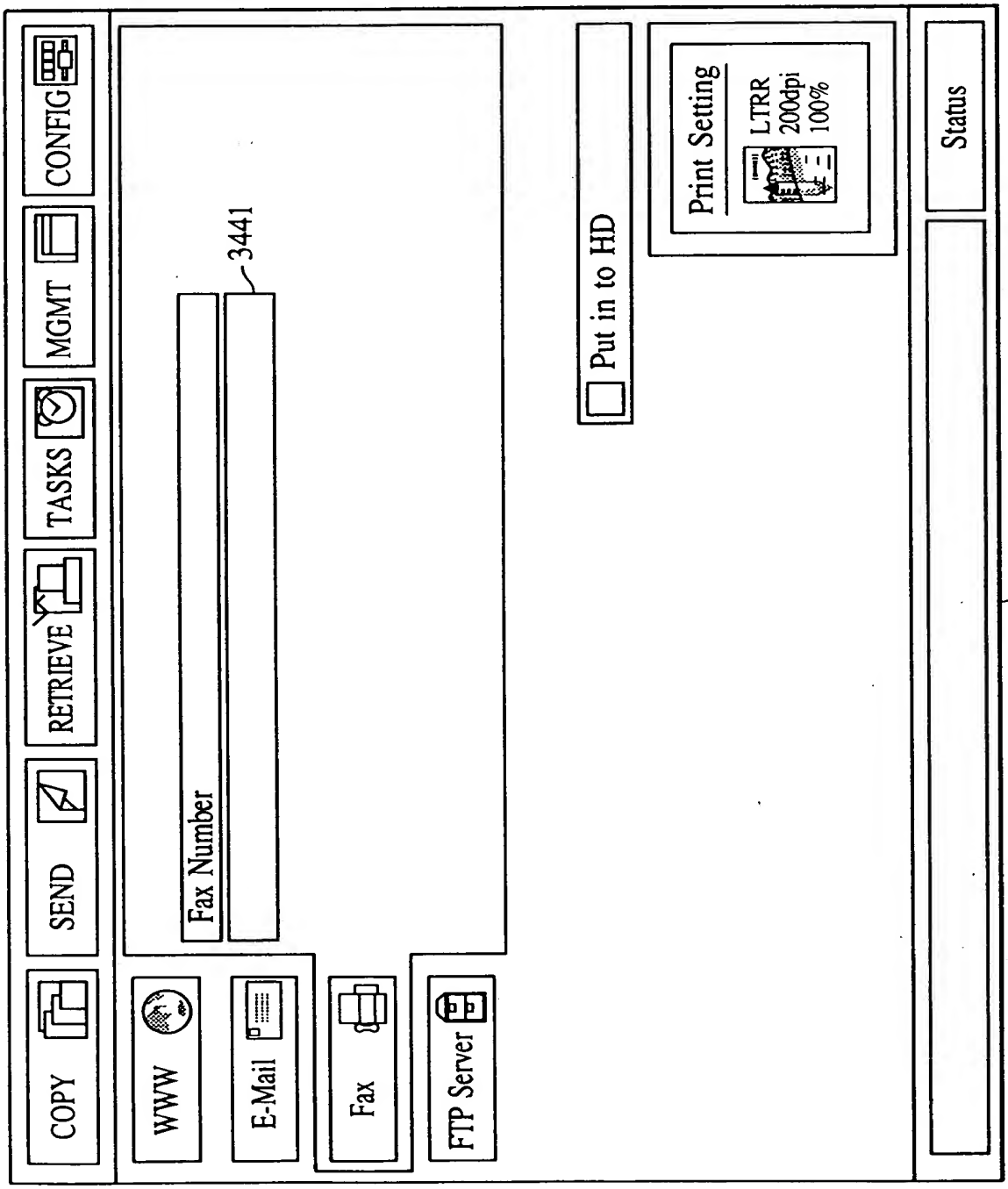

COPY
SEND
RETRIEVE
TASKS
MGMT
CONFIG
WWW
E-Mail
Fax
FTP Server
Fax Number
3441
Put in to HD
Print Setting
LTRR
200dpi
100%
Status
3440

FIG. 52

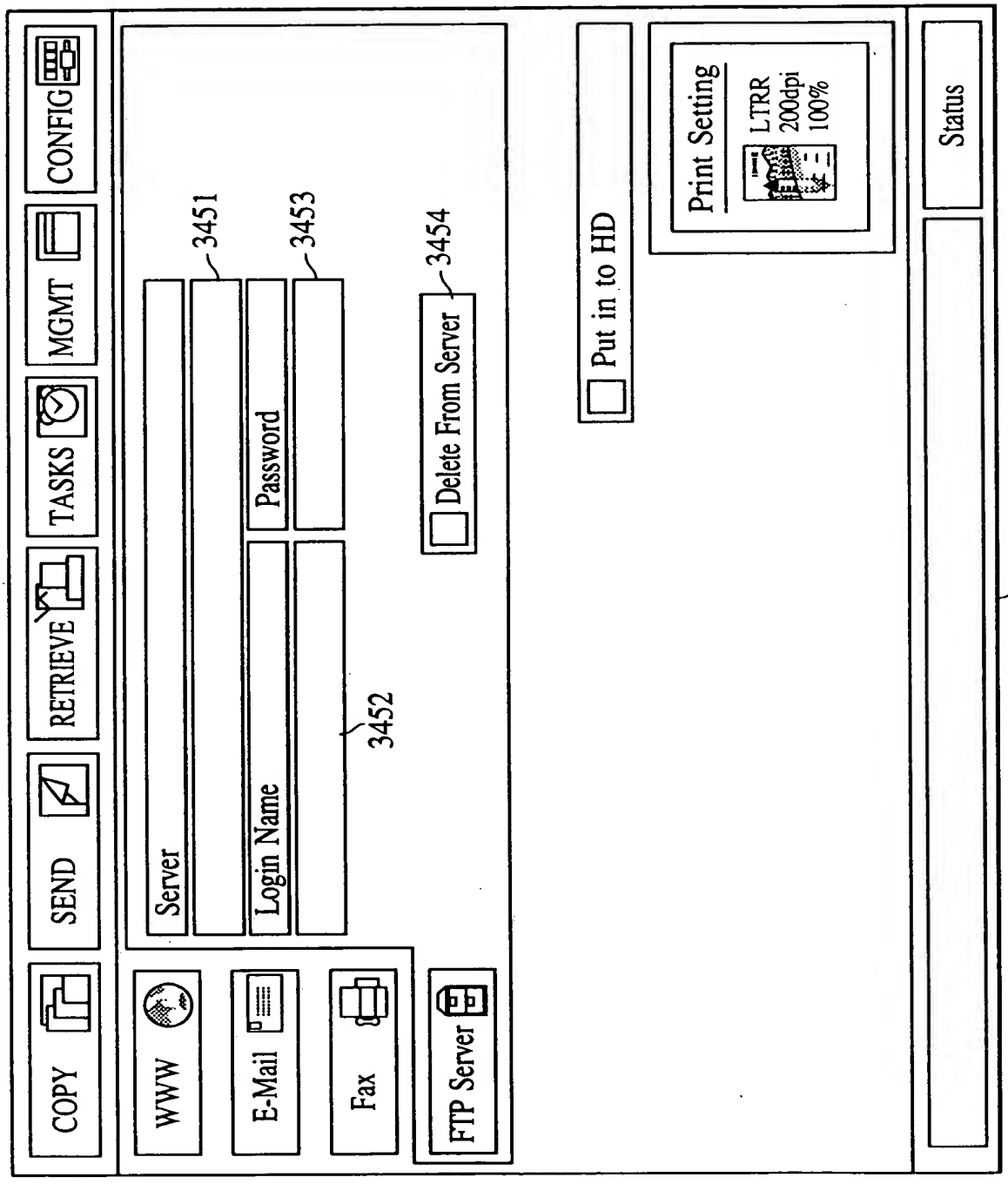

COPY
SEND
RETRIEVE
TASKS
MGMT
CONFIG
WWW
E-Mail
Fax
FTP Server
Server
Login Name
Password
Delete From Server
Put in to HD
Print Setting
LTRR
200dpi
100%
Status
3451
3452
3453
3454
3450

FIG. 53

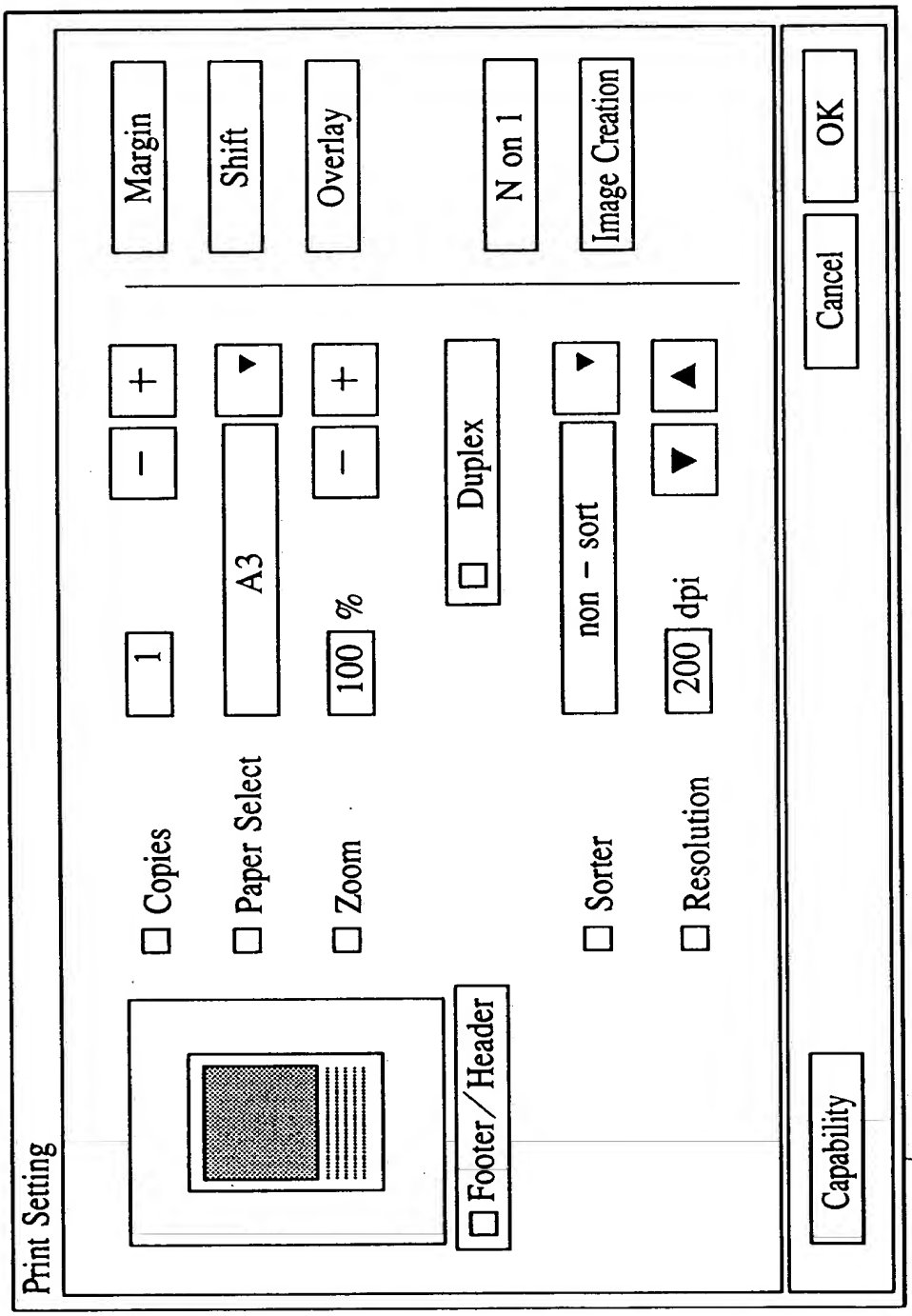

Print Setting
Copies
1
Paper Select
A3
Zoom
100
%
Duplex
Sorter
non - sort
Resolution
200
dpi
Footer / Header
Margin
Shift
Overlay
N on 1
Image Creation
Capability
Cancel
OK
3470

FIG. 54

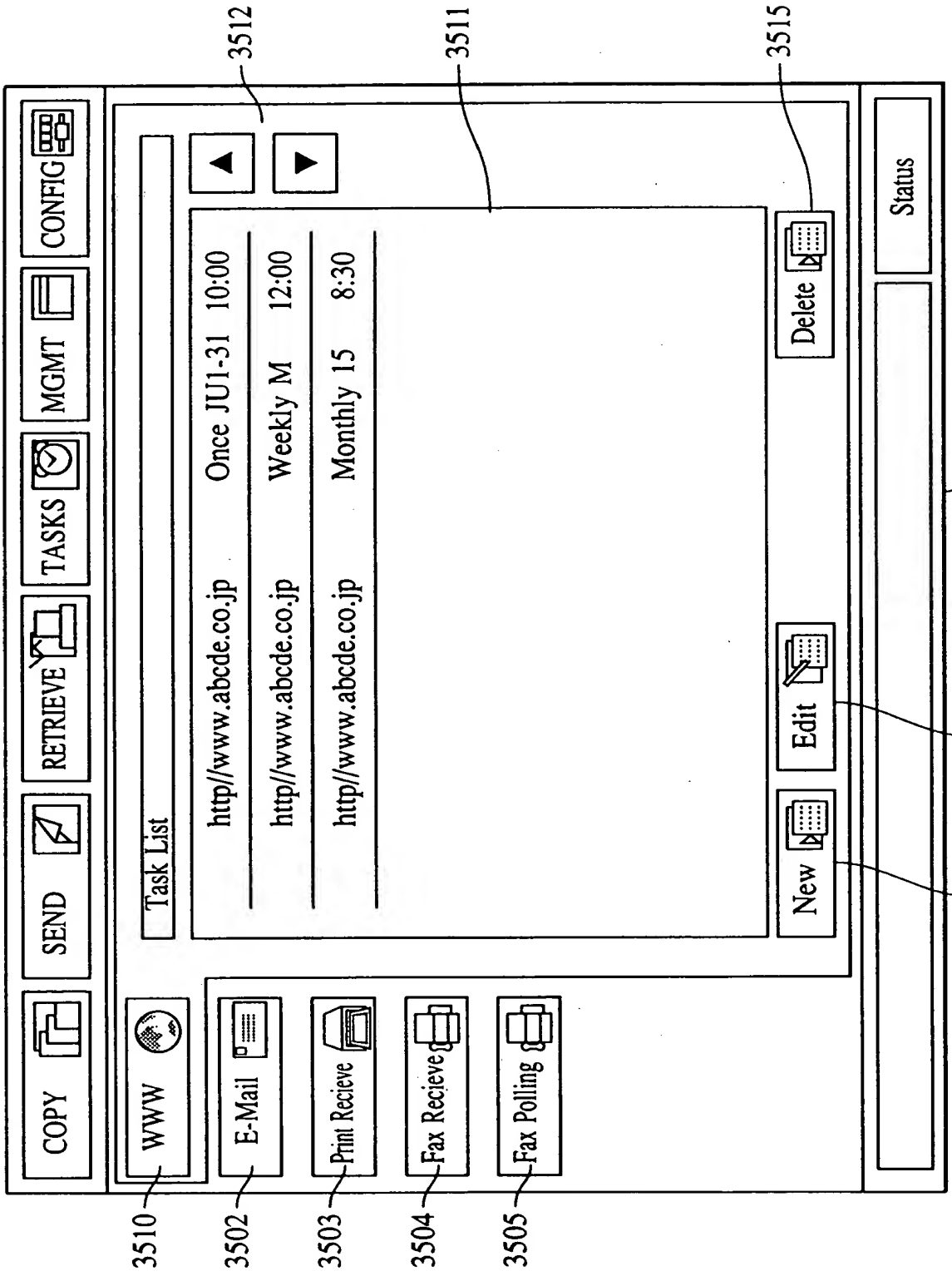

COPY
SEND
RETRIEVE
TASKS
MGMT
CONFIG
WWW
E-Mail
Print Recieve
Fax Recieve
Fax Polling
Task List
http//www.abcde.co.jp Once JU1-31 10:00
http//www.abcde.co.jp Weekly M 12:00
http//www.abcde.co.jp Monthly 15 8:30
New
Edit
Delete
Status
3510
3502
3503
3504
3505
3512
3511
3515
3513
3514
3500

FIG. 55

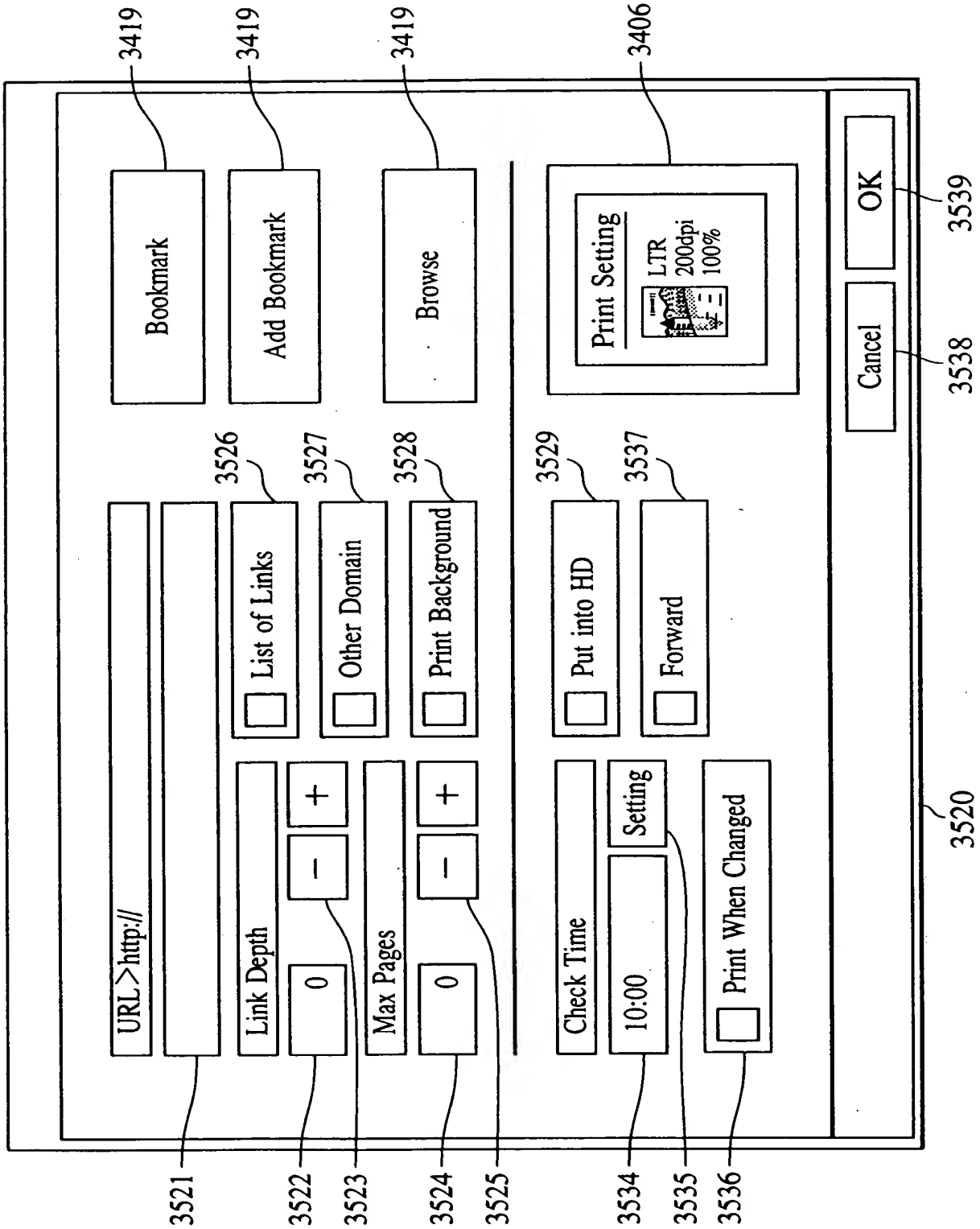

3419
3419
3419
3406
Bookmark
Add Bookmark
Browse
Print Setting
LTR
200dpi
100%
URL>http://
Link Depth
0
Max Pages
0
List of Links
Other Domain
Print Background
Put into HD
Forward
Check Time
10:00
Setting
Print When Changed
Cancel
OK
3520
3521
3522
3523
3524
3525
3526
3527
3528
3529
3534
3535
3536
3537
3538
3539

FIG. 56

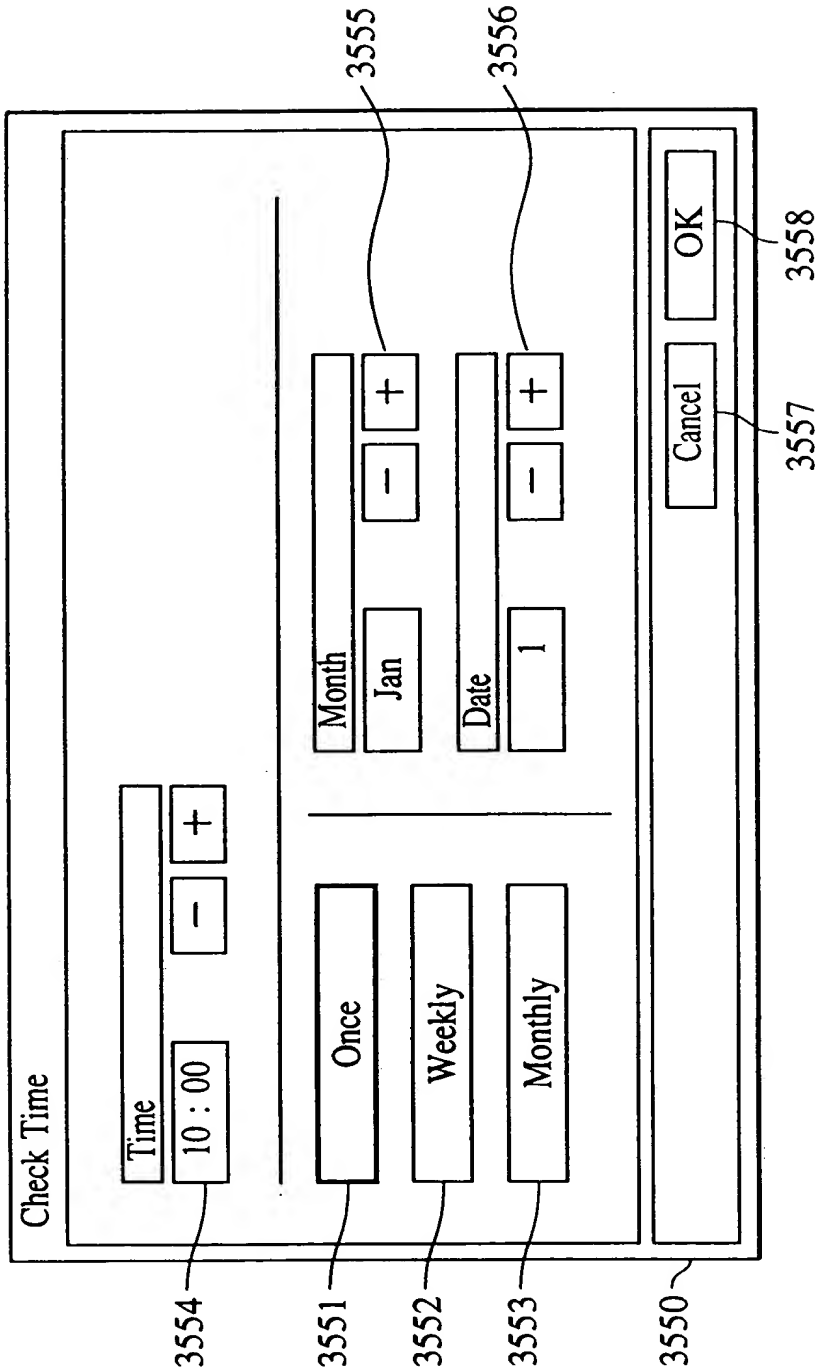

Check Time
Time
10 : 00
Once
Weekly
Monthly
Month
Jan
Date
1
Cancel
OK
3550
3551
3552
3553
3554
3555
3556
3557
3558

FIG. 57

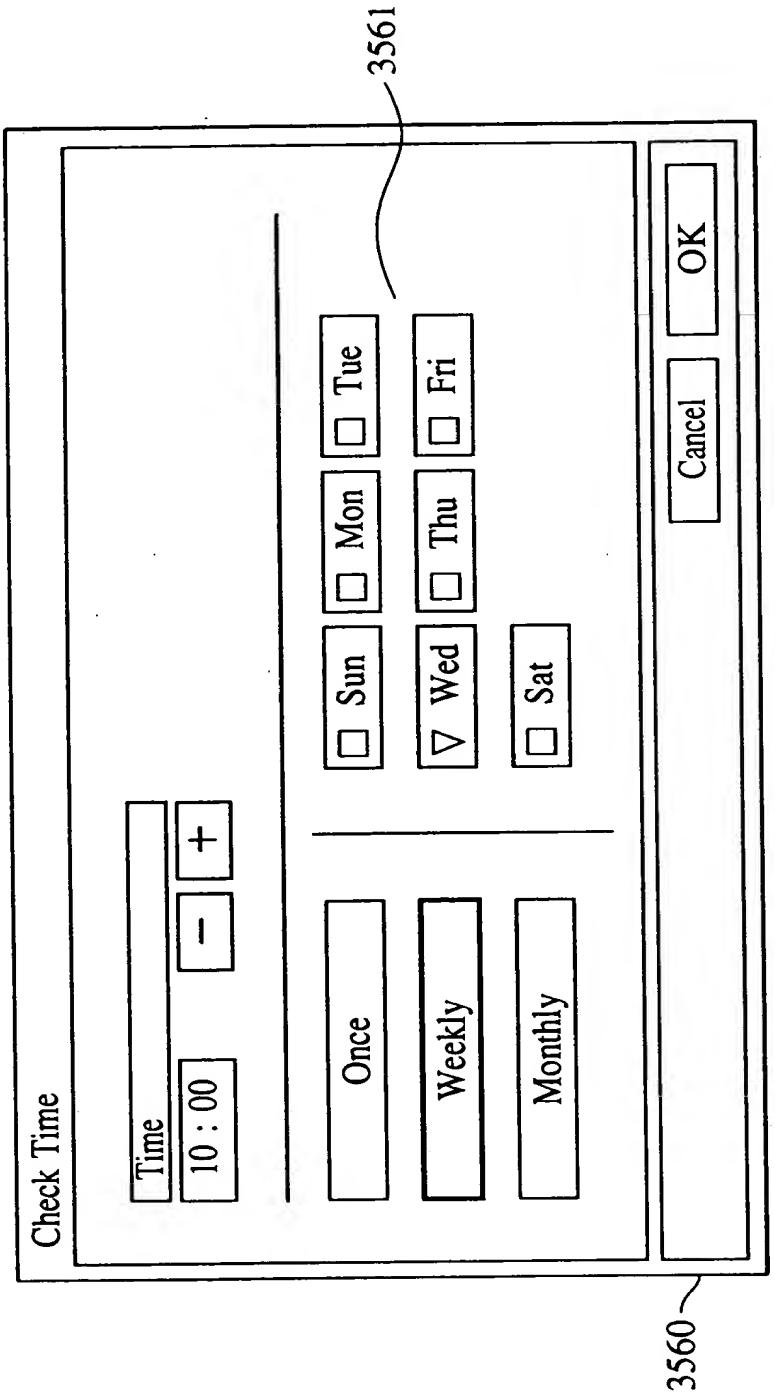
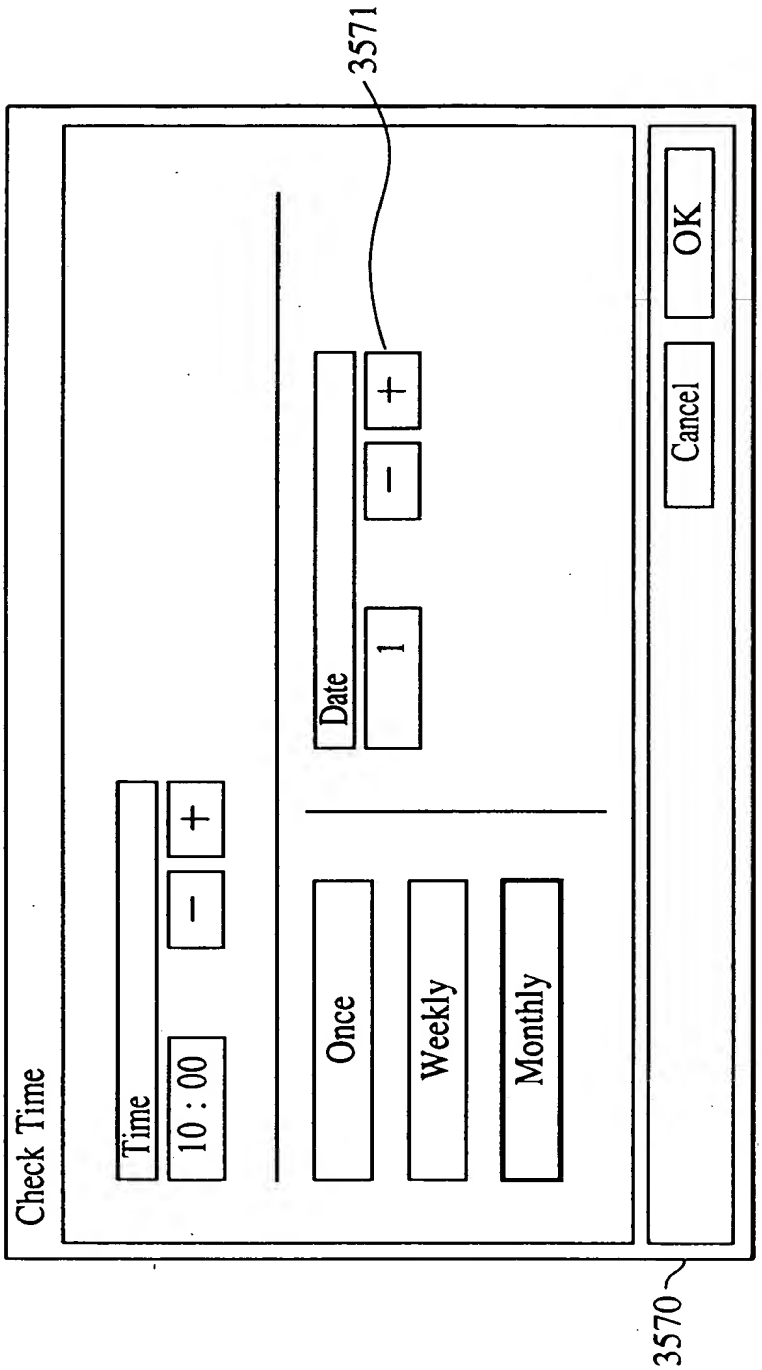

Check Time
Time
10 : 00
+
-
Once
Weekly
Monthly
Sun
Mon
Tue
Wed
Thu
Fri
Sat
Cancel
OK
3561
3560

FIG. 58


Check Time
Time
10 : 00
−
+
Once
Weekly
Monthly
Date
1
−
+
3571
Cancel
OK
3570

DOMTED: 20052560

FIG. 59

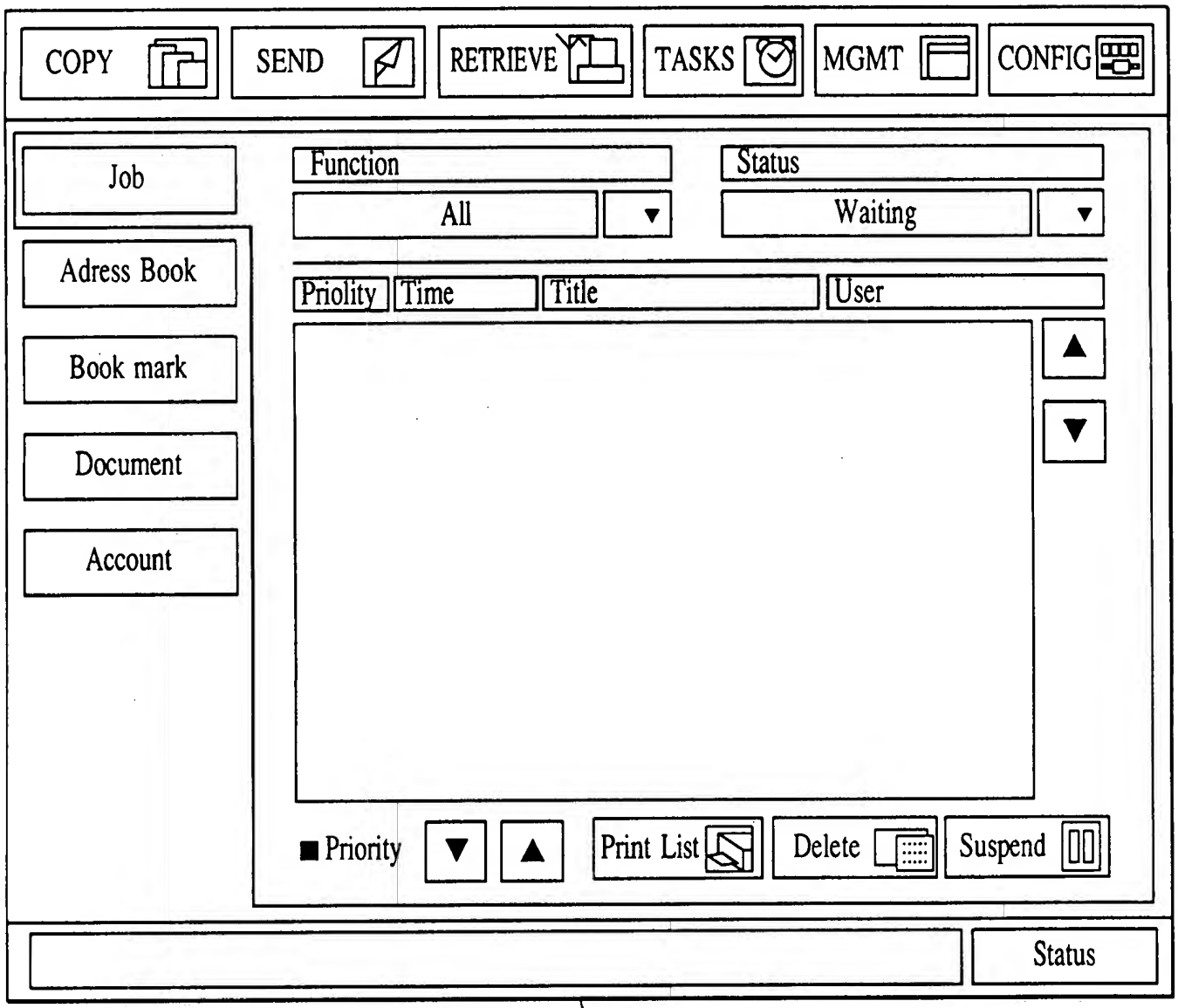


FIG. 60

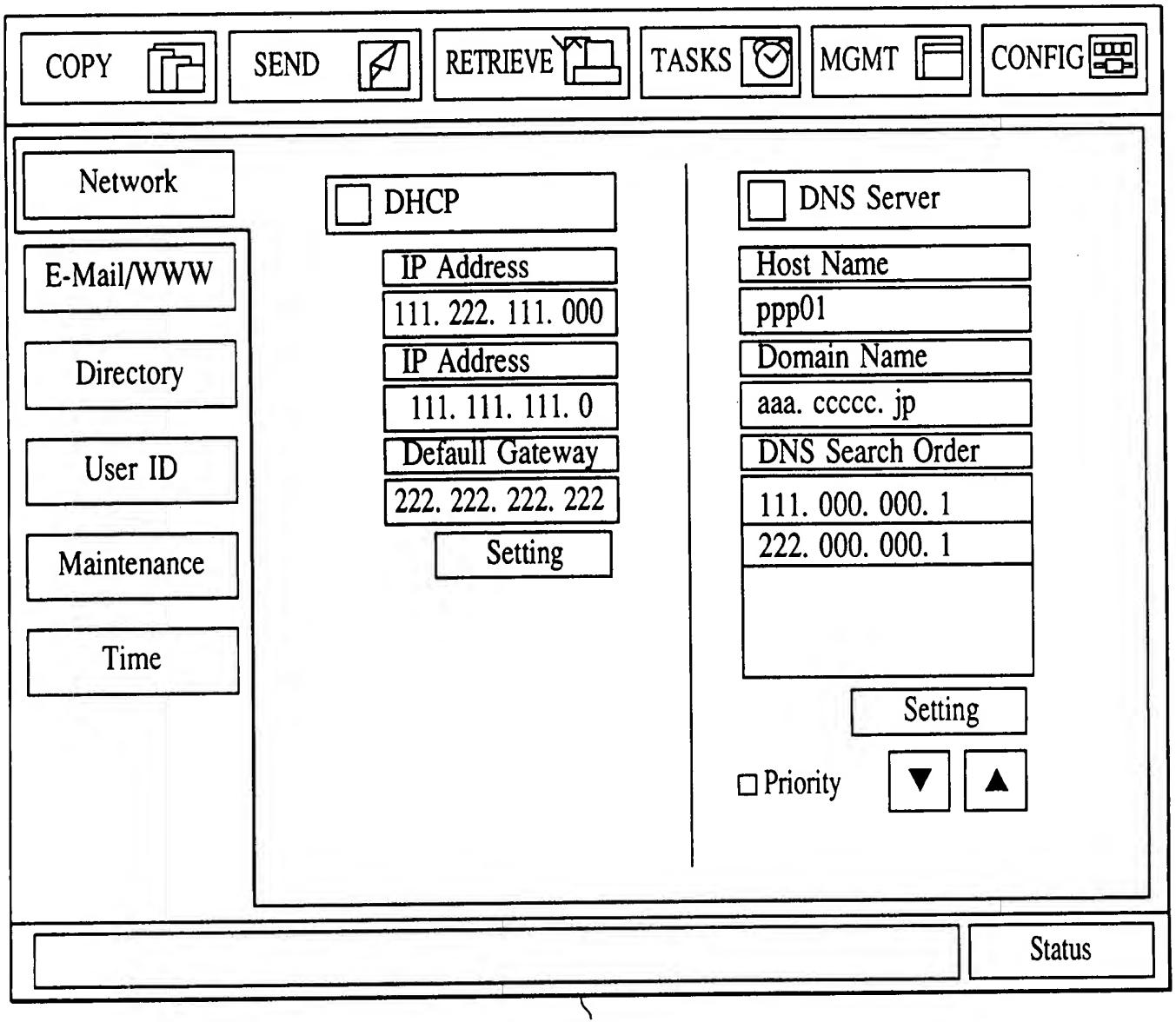

COPY
SEND
RETRIEVE
TASKS
MGMT
CONFIG
Network
E-Mail/WWW
Directory
User ID
Maintenance
Time
DHCP
IP Address
111. 222. 111. 000
IP Address
111. 111. 111. 0
Defaull Gateway
222. 222. 222. 222
Setting
DNS Server
Host Name
ppp01
Domain Name
aaa. ccccc. jp
DNS Search Order
111. 000. 000. 1
222. 000. 000. 1
Setting
Priority
Status
3700

FIG. 61

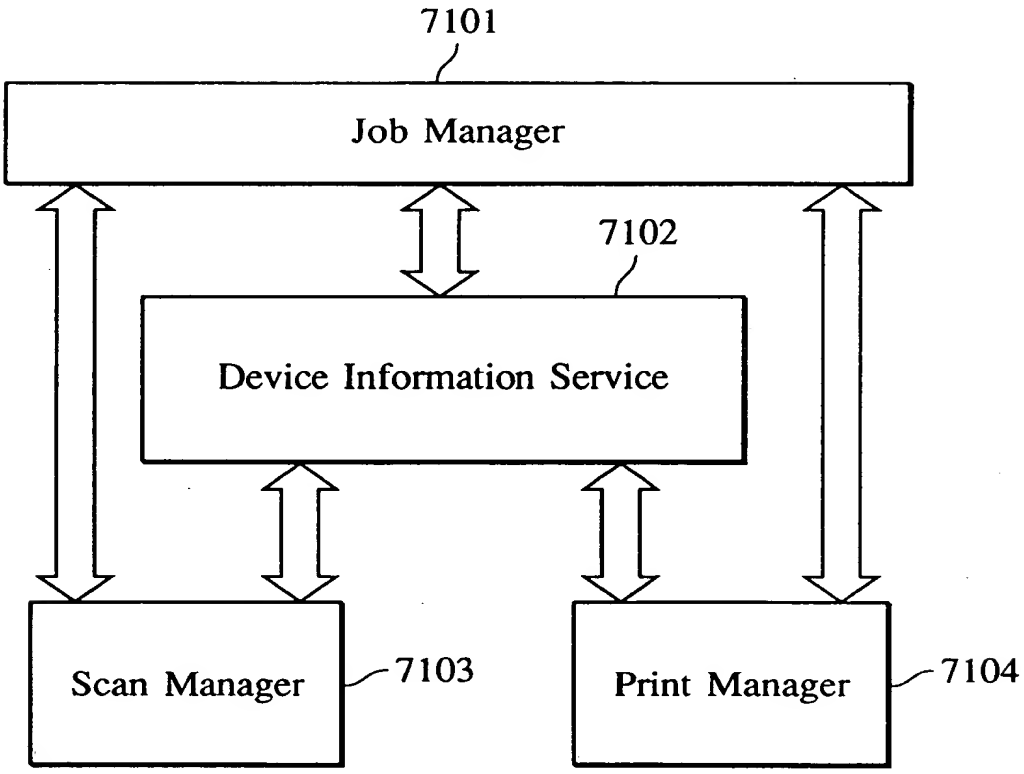

7101
Job Manager
7102
Device Information Service
Scan Manager
7103
Print Manager
7104

FIG. 62

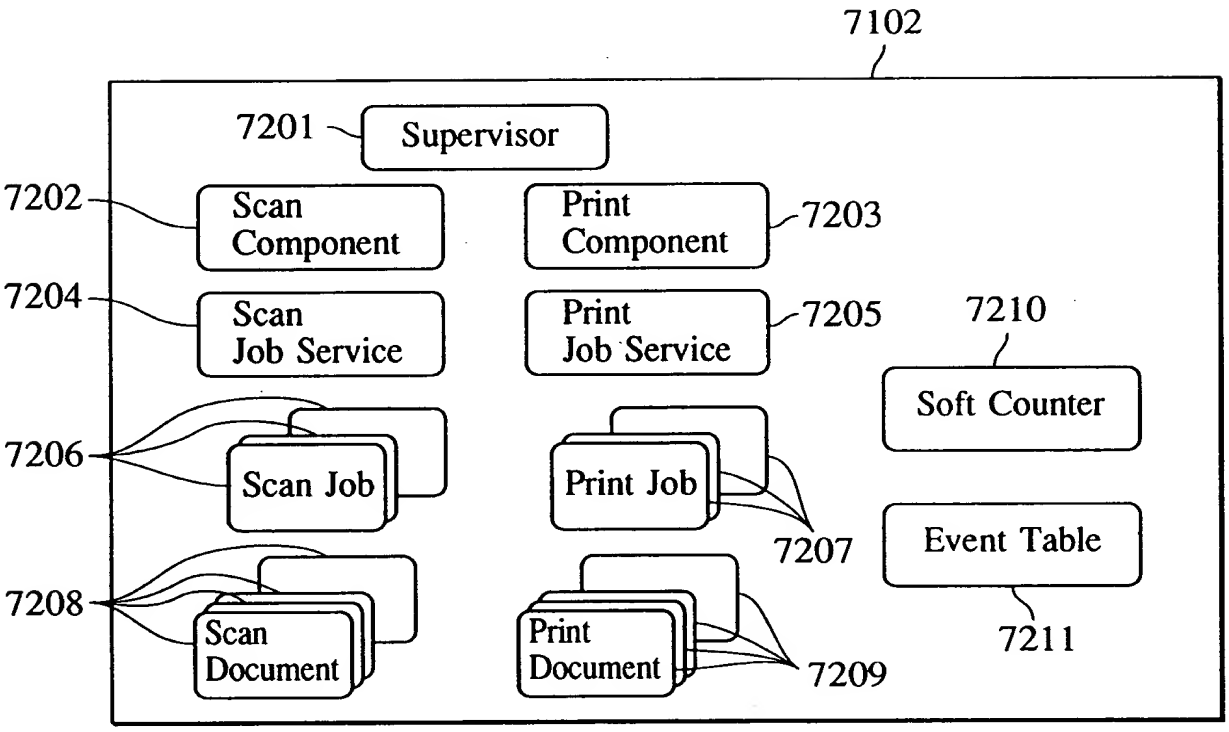

7102
7201
Supervisor
7202
Scan Component
Print Component
7203
7204
Scan Job Service
Print Job Service
7205
7210
Soft Counter
7206
Scan Job
Print Job
7207
Event Table
7208
Scan Document
Print Document
7209
7211

FIG. 63

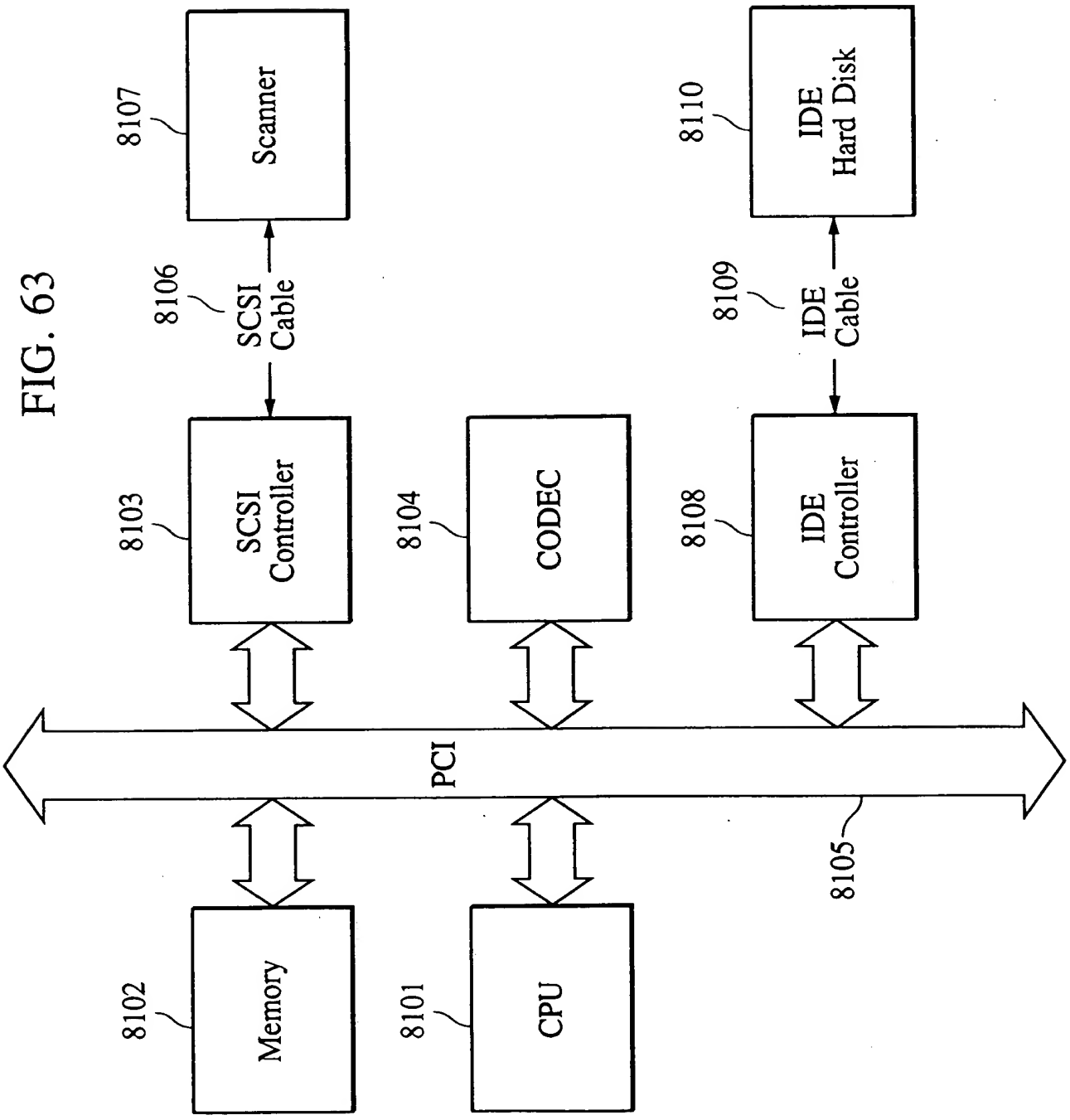

8107
Scanner
8110
IDE
Hard Disk
8106
SCSI
Cable
8109
IDE
Cable
8103
SCSI
Controller
8104
CODEC
8108
IDE
Controller
PCI
8105
8102
Memory
8101
CPU

FIG. 64

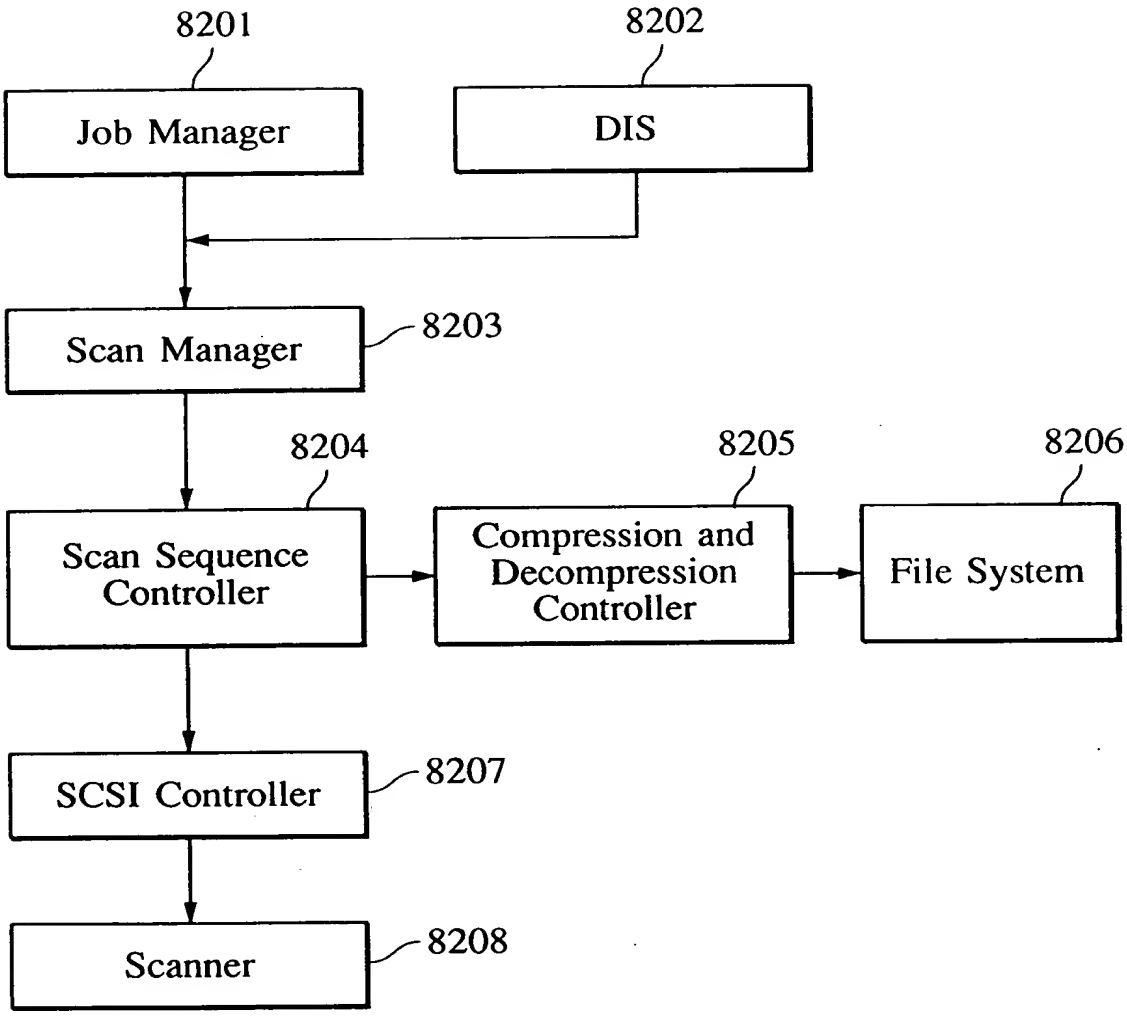

8201
8202
Job Manager
DIS
Scan Manager
8203
8204
8205
8206
Scan Sequence Controller
Compression and Decompression Controller
File System
SCSI Controller
8207
Scanner
8208

FIG. 65

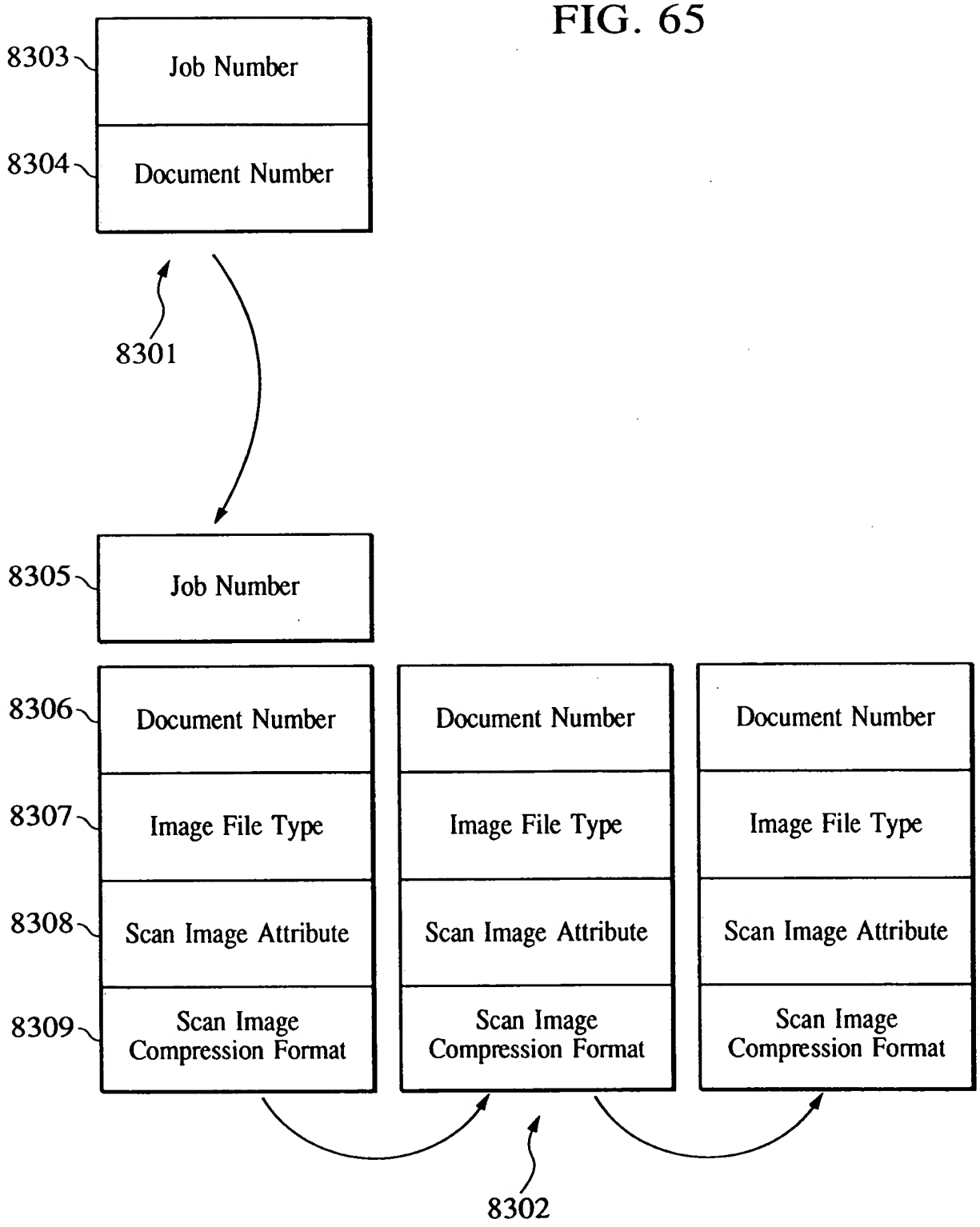
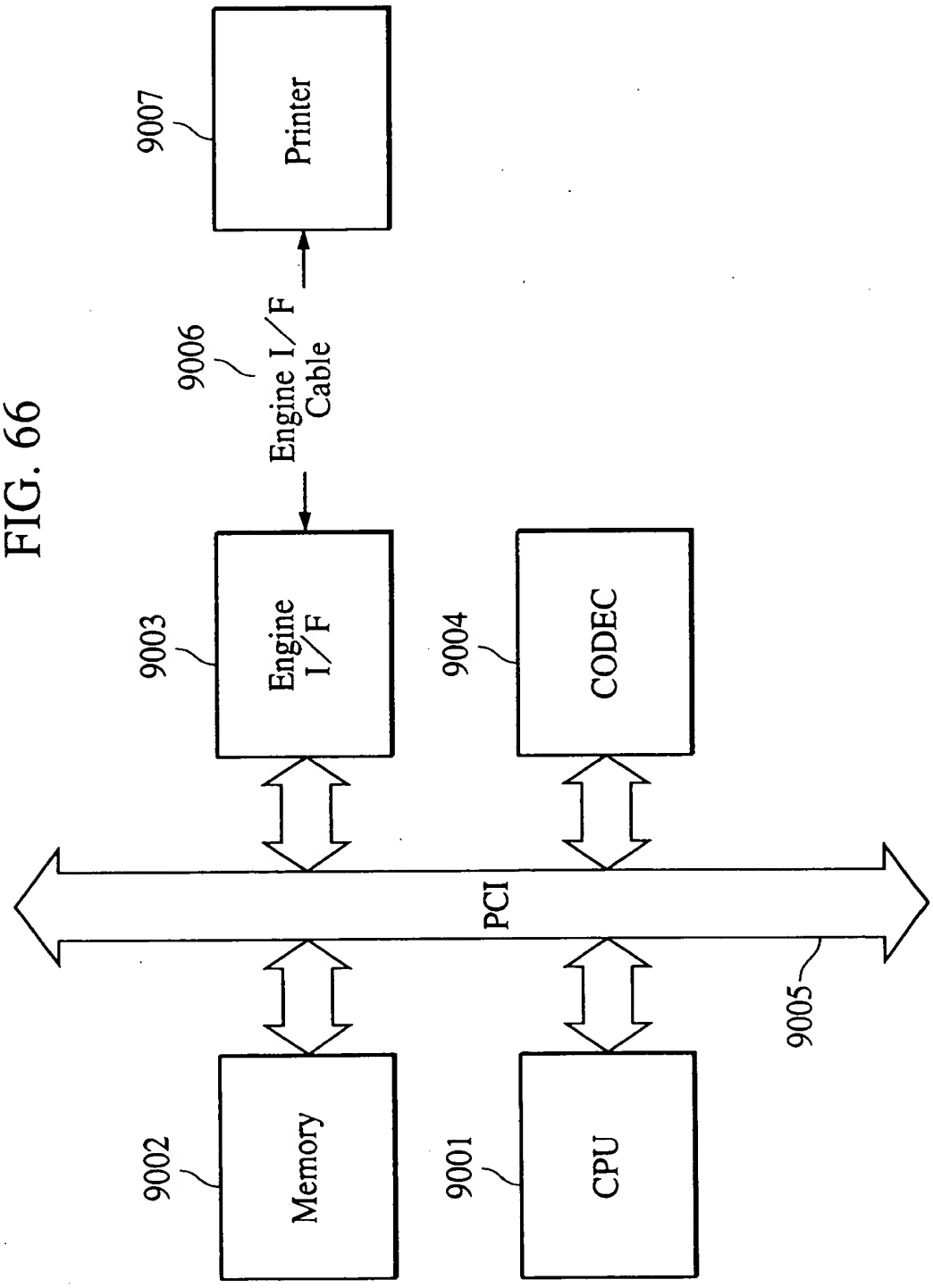

8303
Job Number
8304
Document Number
8301
8305
Job Number
8306
Document Number
8307
Image File Type
8308
Scan Image Attribute
8309
Scan Image Compression Format
Document Number
Image File Type
Scan Image Attribute
Scan Image Compression Format
Document Number
Image File Type
Scan Image Attribute
Scan Image Compression Format
8302

FIG. 66


9007
Printer
9006
Engine I/F Cable
9003
Engine I/F
9004
CODEC
PCI
9005
9002
Memory
9001
CPU

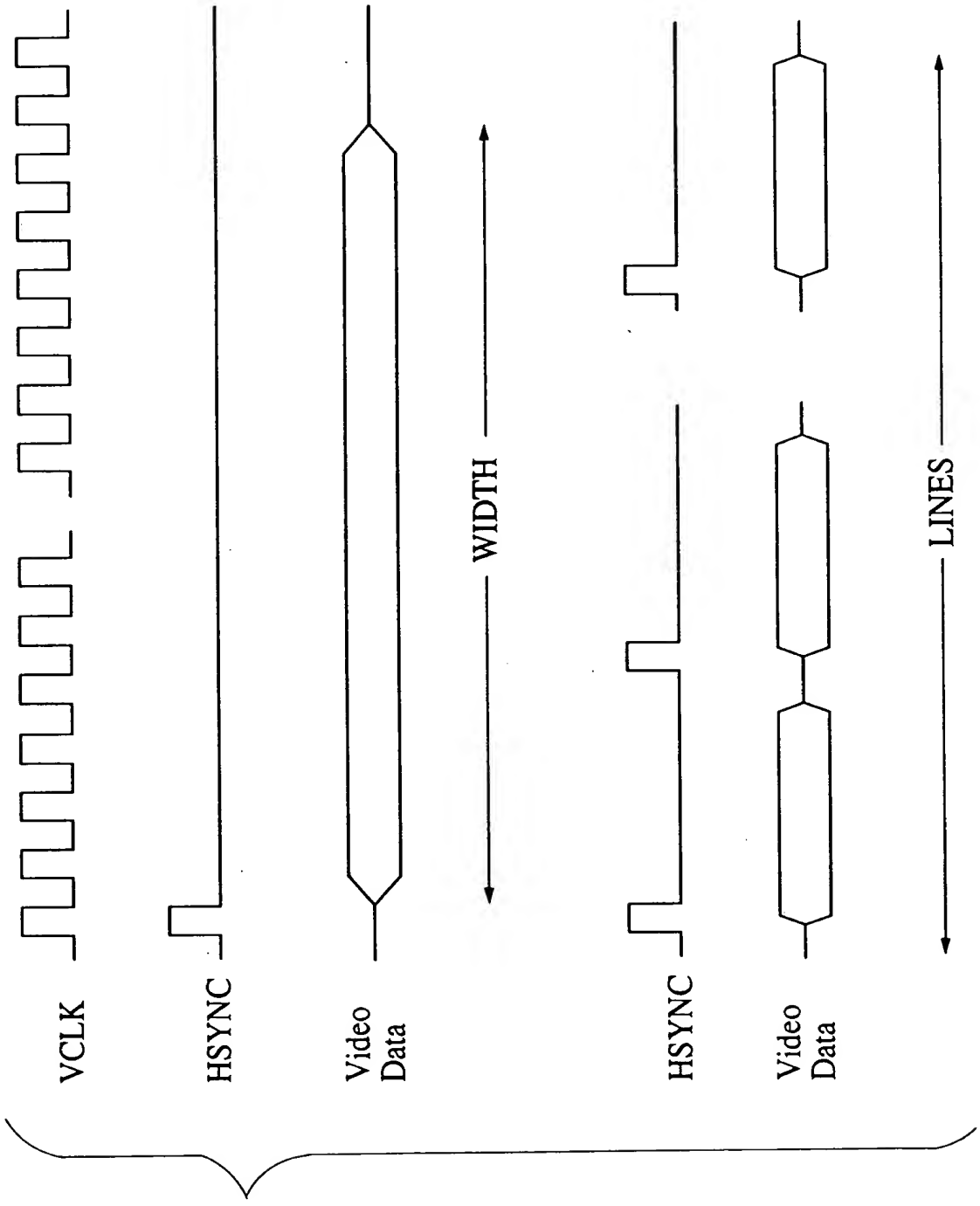



FIG. 67

FIG. 68

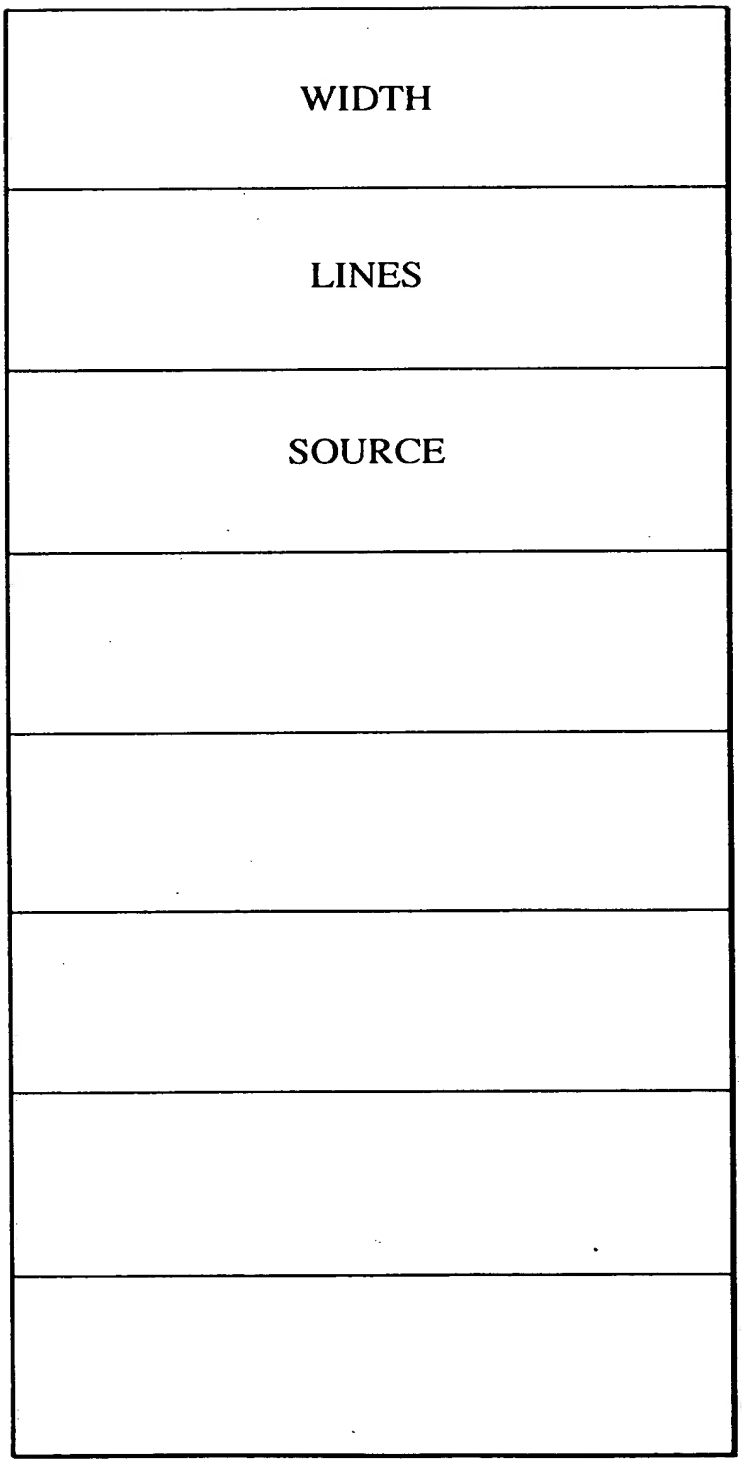


FIG. 69

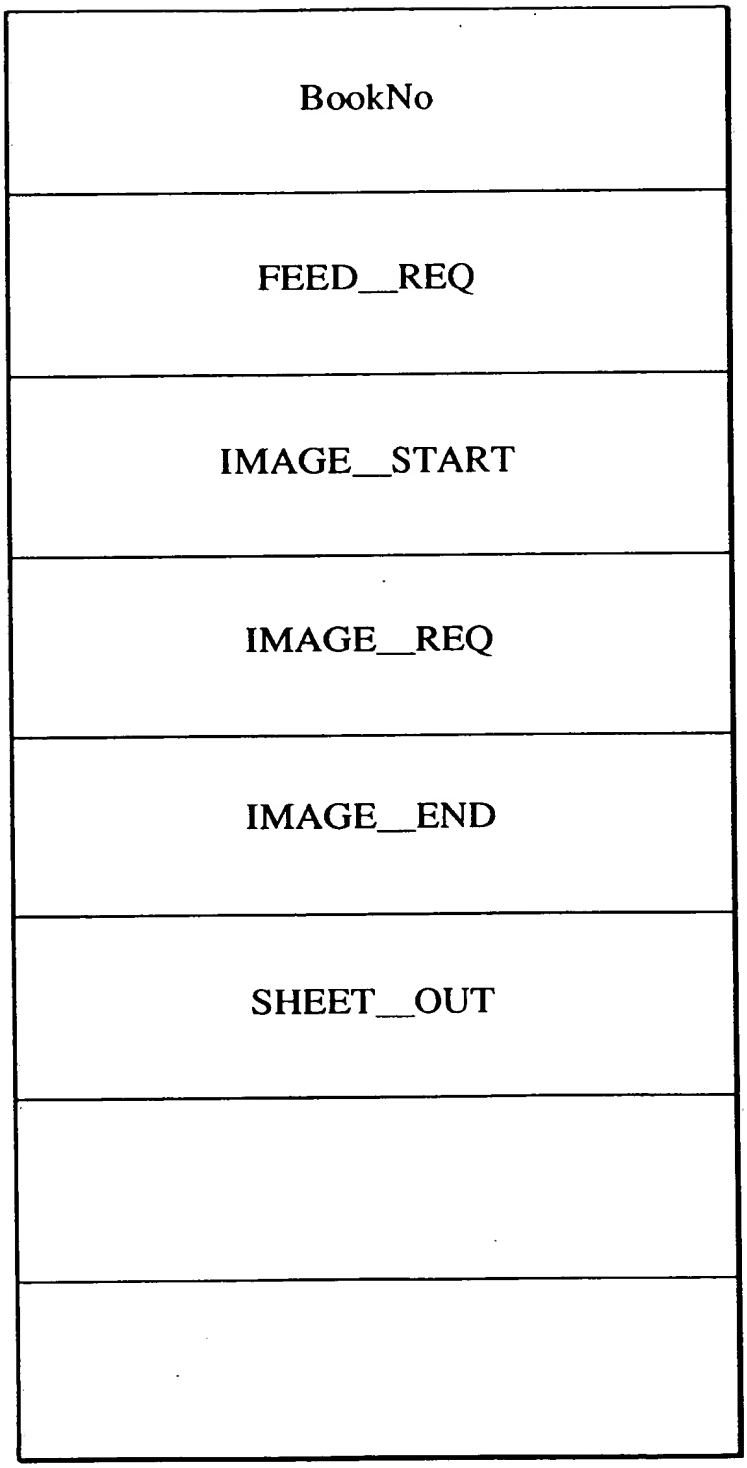
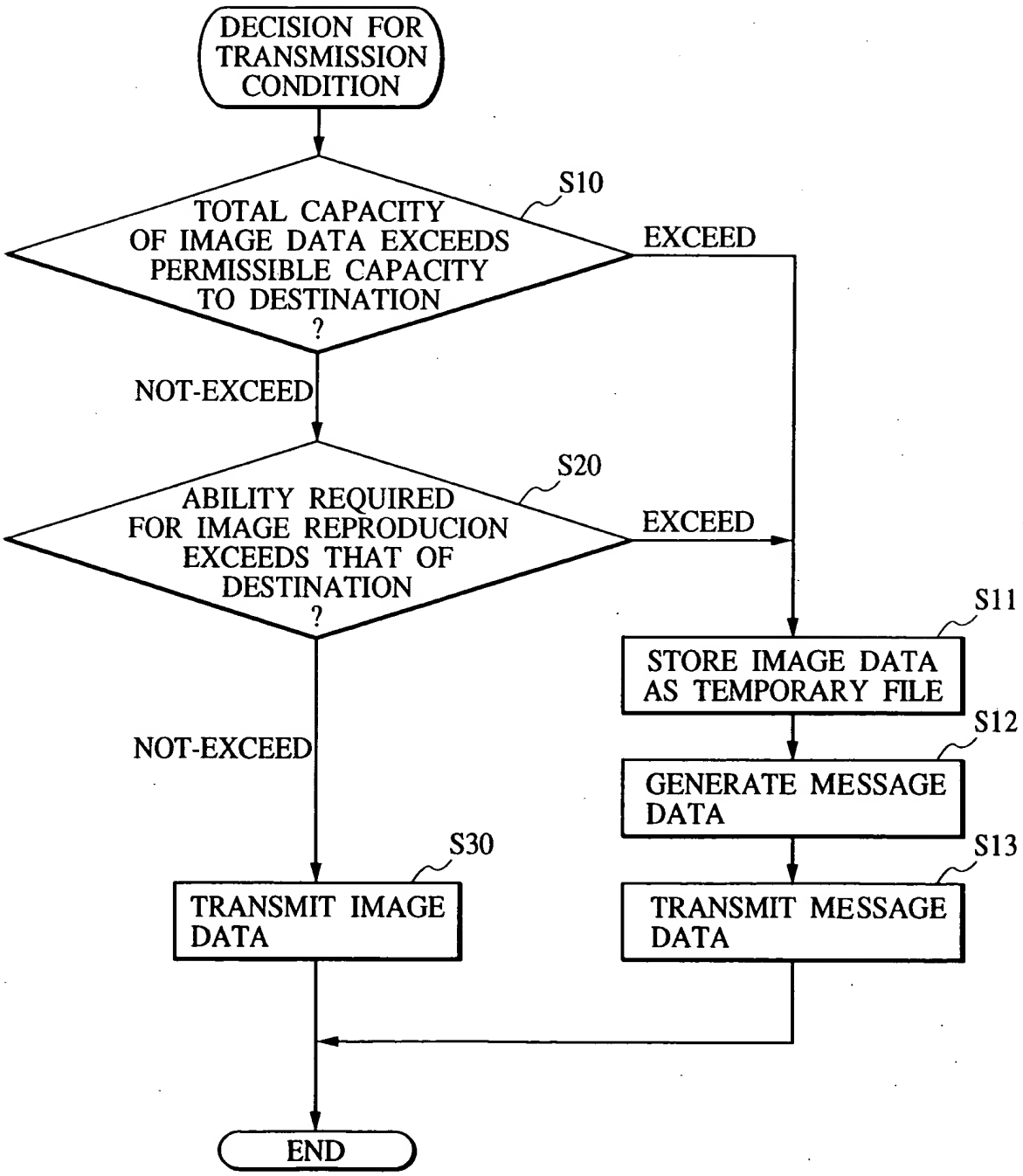


FIG. 70


DECISION FOR TRANSMISSION CONDITION
S10
TOTAL CAPACITY OF IMAGE DATA EXCEEDS PERMISSIBLE CAPACITY TO DESTINATION ?
EXCEED
NOT-EXCEED
S20
ABILITY REQUIRED FOR IMAGE REPRODUCION EXCEEDS THAT OF DESTINATION ?
EXCEED
NOT-EXCEED
S11
STORE IMAGE DATA AS TEMPORARY FILE
S12
GENERATE MESSAGE DATA
S13
TRANSMIT MESSAGE DATA
S30
TRANSMIT IMAGE DATA
END

DOCKET 59052560

FIG. 71

7100

| INFORMATION ROUTE | PERMISSIBLE DATA CAPACITY |
|---|---|
| PSTN (TELEPHONE LINE) | NOT DESIGNATED |
| ISDN (TELEPHONE LINE) | NOT DESIGNATED |
| LAN (10base) | 1M BYTE |
| LAN (100base) | 10M BYTES |
| INTERNET | 500K BYTES |
| | |
| | |

FIG. 72

7200

| NAME OF DESTINATION | INFORMATION ROUTE | LIST OF ABILITY | | |
|---|---|---|---|---|
| | | REPRODUCTIVITY | MAXIMUM OUTPUT SIZE | PRODUCTIVITY |
| RESEARCH BLDG. 3RD FL. FAX | PSTN | B/W BINARY | A4 | 3 |
| RESEARCH BLDG. 3RD FL. PC | LAN (10bese) | – | – | 10 |
| RESEARCH BLDG. 3RD FL. WS | LAN (100bese) | – | – | 100 |
| KOKURA INSTITUTE WS | INTERNET | – | – | 100 |
| KOKURA INSTITUTE WS | INTERNET | FULL COLOR | A3 | 16 |
| | | | | |
| | | | | |

FIG. 73

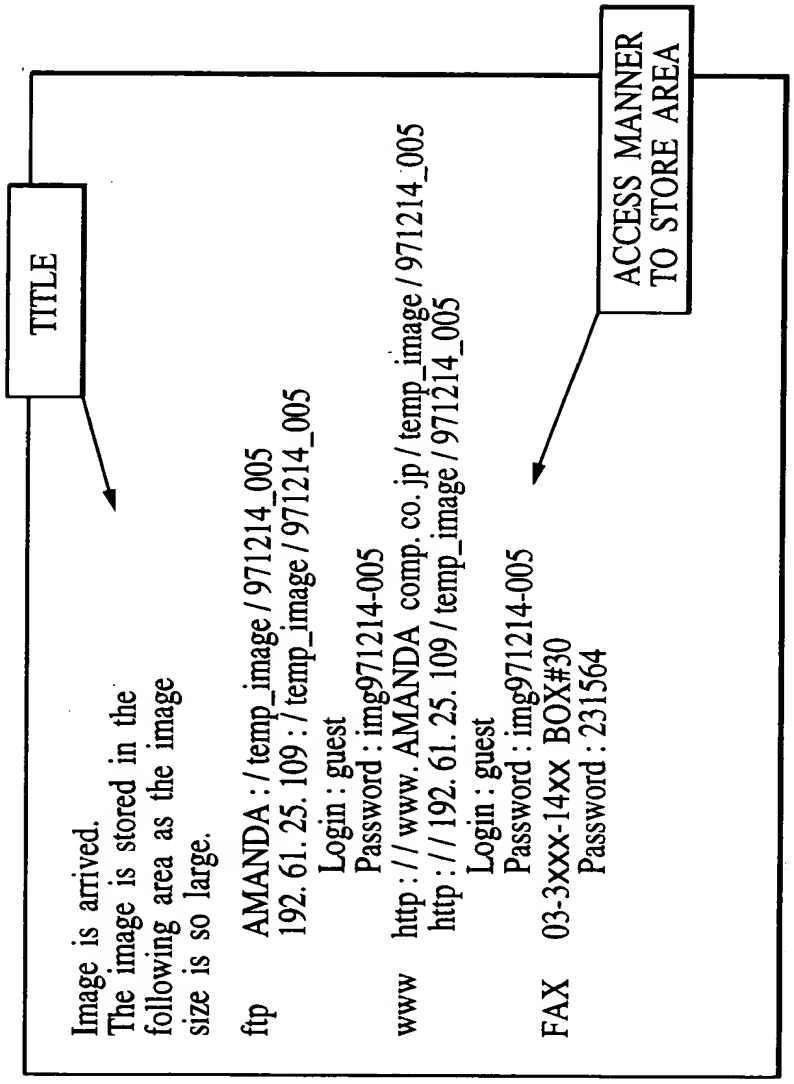
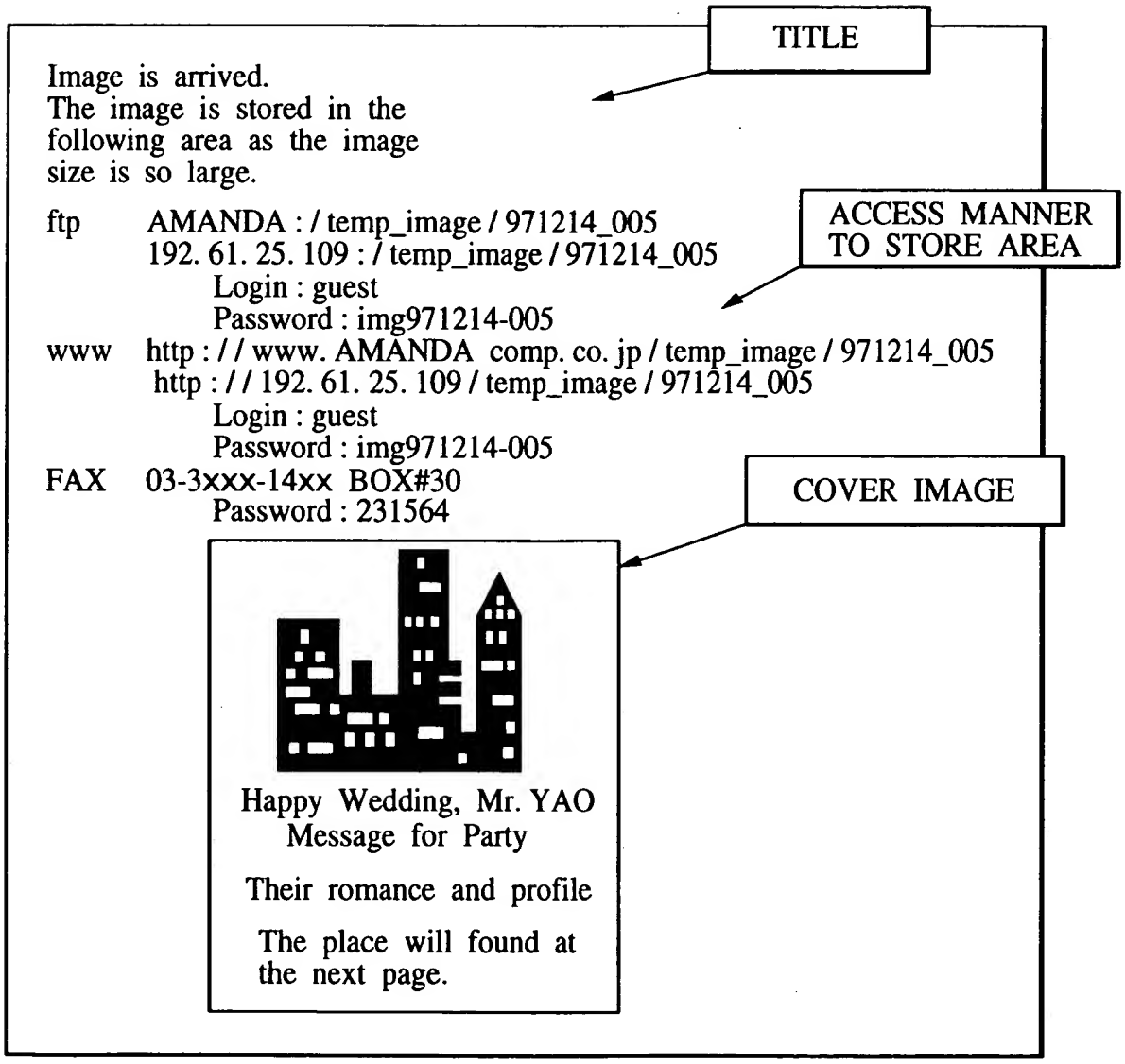

TITLE
ACCESS MANNER TO STORE AREA
Image is arrived.
The image is stored in the following area as the image size is so large.
ftp AMANDA : / temp_image / 971214_005
192. 61. 25. 109 : / temp_image / 971214_005
Login : guest
Password : img971214-005
www http : / / www. AMANDA comp. co. jp / temp_image / 971214_005
http : / / 192. 61. 25. 109 / temp_image / 971214_005
Login : guest
Password : img971214-005
FAX 03-3xxx-14xx BOX#30
Password : 231564

FIG. 74


TITLE
Image is arrived.
The image is stored in the following area as the image size is so large.
ACCESS MANNER TO STORE AREA
ftp AMANDA : / temp_image / 971214_005
192. 61. 25. 109 : / temp_image / 971214_005
Login : guest
Password : img971214-005
www http : / / www. AMANDA comp. co. jp / temp_image / 971214_005
http : / / 192. 61. 25. 109 / temp_image / 971214_005
Login : guest
Password : img971214-005
FAX 03-3xxx-14xx BOX#30
Password : 231564
COVER IMAGE
Happy Wedding, Mr. YAO
Message for Party
Their romance and profile
The place will found at the next page.

# FIG. 75

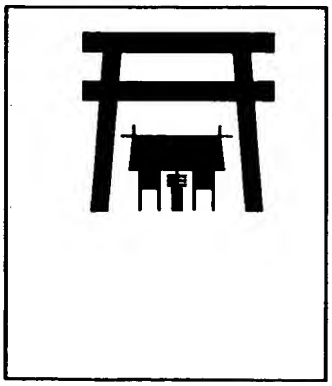
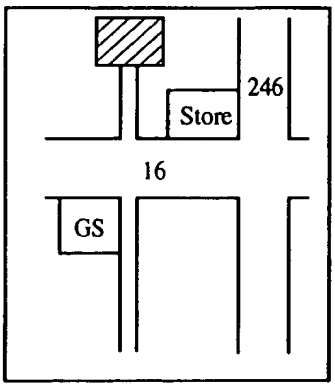
TITLE

Image is arrived.
The image is stored in the following area as the image size is so large.

ACCESS MANNER TO STORE AREA

ftp AMANDA : / temp_image / 971214_005
192. 61. 25. 109 : / temp_image / 971214_005
Login : guest
Password : img971214-005

www http : / / www. AMANDA comp. co. jp / temp_image / 971214_005
http : / / 192. 61. 25. 109 / temp_image / 971214_005
Login : guest
Password : img971214-005

FAX 03-3xxx-14xx BOX#30
Password : 231564

IMAGE